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Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6340	19110	32100	0.79	7.0E-21	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
8287	20981	34121	1.53	7.0E-21	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
8576	21268	34407	10.76	7.0E-21	D14718.1	NT	Human chromosomal protein HM/G1 related gene
10013	22661	39877	0.88	7.0E-21	AW856822.1	EST_HUMAN	RC0-CT0301-271199-031-F03 CT0301 Homo sapiens cDNA
10594	23288	39525					z773403.s1 Soares_fetal_heart_NIH_H10W Homo sapiens cDNA clone IMAGE:398981 3' similar to gcrM14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN); contains THR13 OFF repetitive element;
11234	23897	37184	2.19	7.0E-21	AA723404.1	EST_HUMAN	Homo sapiens PTD013 protein (PTD013), mRNA
4083	16827	29454	0.83	6.0E-21	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
9034	21724	26334	0.6	6.0E-21	BE162737.1	EST_HUMAN	PM1-HT0454-080100-002-109 HT0454 Homo sapiens cDNA
903	13070	26334	0.7	5.0E-21	5902031	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA
4330	17069	28697	2.91	5.0E-21	BE968839.1	EST_HUMAN	601649871F1 NIH_MGC_74 Homo sapiens cDNA clone IMAGE:3933880 5'
4749	17481	30112	5.56	5.0E-21	4895474	NT	Homo sapiens melanoma antigen, family C, 1 (MAGEC1), mRNA
6685	19582		0.9	5.0E-21	AW440884.1	EST_HUMAN	hs05e10.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2918154 3'
6917	19654	32700	0.88	5.0E-21	BE856505.1	EST_HUMAN	7183411.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:3303573 3' similar to contains OFR11 OFR repetitive element;
10474	23120	36349	0.44	5.0E-21	Q91690	SWISSPROT	ZINC FINGER PROTEIN GLI1 (GLI-1)
10474	23120	36350	0.44	5.0E-21	Q91690	SWISSPROT	ZINC FINGER PROTEIN GLI1 (GLI-1)
11886	24527		2.83	5.0E-21	AA393574.1	EST_HUMAN	z172c04.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727878 5'
1727	14469	27168	1.81	4.0E-21	AA970713.1	EST_HUMAN	0086808.s1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1573094 3' similar to TR-Q16530 Q16530 PMS3 MRNA; contains OFR11 OFR repetitive element;
6772	19518	32544	3.27	4.0E-21	AB018578.1	NT	Rattus norvegicus mRNA for rTIM, complete cds
9680	22332	35527	0.63	4.0E-21	U91328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, R6Ret gene, and sodium phosphate transporter (NPT3) gene, complete cds
9705	22356	35552	0.7	4.0E-21	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
1829	14568	27280	0.94	3.0E-21	AA218891.1	EST_HUMAN	z115406.s1 Stratagene fetal retina 837202 Homo sapiens cDNA clone IMAGE:628771 3'
2272	14998	27736	1.24	3.0E-21	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3078	15943	28485	4.31	3.0E-21	AJ007973.1	NT	Homo sapiens LGMD2B gene
5412	18211	30919	0.88	3.0E-21	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
5412	18211	30920	0.68	3.0E-21	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5652	18447		0.65	3.0E-21	AV681044.1	EST_HUMAN	AV681044 GLC Homo sapiens cDNA clone GLC0A10.3'
6086	18864		2.3	3.0E-21	BF184739.1	EST_HUMAN	601844465F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4064945.5'
6669	19451	32468	7.69	3.0E-21	BF381083.1	EST_HUMAN	RC1-OT0083-100800-018-g08 OT0083 Homo sapiens cDNA
6592	22245	35428	1.15	3.0E-21	AW887760.1	EST_HUMAN	CM1-NN0063-280-400-203-h08 NN0063 Homo sapiens cDNA
12533	25327	30714	2.88	3.0E-21	AL183213.2	NT	Homo sapiens chromosome 21 segment HS21C013
141	12856		17.18	2.0E-21	BE163247.1	EST_HUMAN	QV3-HT0458-170200-090-g12 HT0458 Homo sapiens cDNA
914	13681	26342	1.85	2.0E-21	AB007857.2	NT	Homo sapiens mRNA for KIAA0397 protein, partial cds
914	13681	26343	1.85	2.0E-21	AB007857.2	NT	Homo sapiens mRNA for KIAA0397 protein, partial cds
1162	13944		2.75	2.0E-21	BE084410.1	EST_HUMAN	RC4-BT0311-141189-011-h06 BT0311 Homo sapiens cDNA
2644	15354	28088	1.98	2.0E-21	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
2644	15354	28098	1.98	2.0E-21	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
5366	18198	30890	1.84	2.0E-21	AI624682.1	EST_HUMAN	ts3003.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2230109.3' similar to TR:Q89854 Q89854
5489	18288	31184	0.68	2.0E-21	AA027211.1	EST_HUMAN	HYPOTHETICAL 51.1 KD PROTEIN;
5489	18288	31185	0.68	2.0E-21	AA027211.1	EST_HUMAN	z897a12.f1 Soares_fetal_heart_NbH119W Homo sapiens cDNA clone IMAGE:366910.5'
8170	20864	33998	0.5	2.0E-21	AJ010770.1	NT	z897a12.f1 Soares_fetal_heart_NbH119W Homo sapiens cDNA clone IMAGE:366910.5'
8261	20865	34094	6.16	2.0E-21	BE141785.1	EST_HUMAN	Homo sapiens hypoxanthine gene, exons 1-50
8722	21414	34557	3.74	2.0E-21	AU136779.1	EST_HUMAN	QV0-HT0103-091189-050-g11 HT0103 Homo sapiens cDNA
10991	23665		1.55	2.0E-21	BE350127.1	EST_HUMAN	AU136779 PLACE1 Homo sapiens cDNA clone PLACE1005052.5'
11289	23950	37246	1.3	2.0E-21	BE973828.1	EST_HUMAN	h039g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146266.3' similar to contains MER29.b3
11289	23950	37247	1.3	2.0E-21	BE973828.1	EST_HUMAN	MER29 repetitive element;
12272	24712		9.87	2.0E-21	AF176815.1	NT	601680036F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3951008.5'
1233	13982	26652	1.6	1.0E-21	AA557657.1	EST_HUMAN	601680036F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3951008.5'
1381	14128		2.82	1.0E-21	AI601264.1	EST_HUMAN	Homo sapiens putative 8-hydroxyguanine DNA glycosylase gene, complete cds
6366	19185		2.74	1.0E-21	AL016752.1	EST_HUMAN	ri46-04.s1 NCI_CGAP_P14 Homo sapiens cDNA clone IMAGE:1043718 similar to contains MER29.b2
7062	19781	32847	6.6	1.0E-21	AI223104.1	EST_HUMAN	MER29 repetitive element;
10484	23130		1.07	1.0E-21	5730038	NT	601680036F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:2152343.3'
4377	17114	28747	5.65	9.0E-22	AI702438.1	EST_HUMAN	601680036F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3951008.5'
8502	21194	34336	1.27	9.0E-22	AL183201.2	NT	DKFZp434I0830_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434I0830.5'
8502	21194	34337	1.27	9.0E-22	AL183201.2	NT	gg47a05.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838336.3' similar to gb:M64241 QIM PROTEIN (HUMAN);
							Homo sapiens SET domain and nuclear transposase fusion gene (SETMAR) mRNA
							ts24a03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2286204.3' similar to TR:Q15408 Q15408
							NEUTRAL PROTEASE LARGE SUBUNIT;
							Homo sapiens chromosome 21 segment HS21C001
							Homo sapiens chromosome 21 segment HS21C001

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10691	23382	36622	2.63	9.0E-22	AV761874.1	EST_HUMAN	AV761874 MDS Homo sapiens cDNA clone MDS00305 5'
11707	24302	37627	1.34	9.0E-22	AU140358.1	EST_HUMAN	AU140358 PLACE2 Homo sapiens cDNA clone PLACE2000394 5'
929	13688		6.66	8.0E-22	BE144748.1	EST_HUMAN	CM0-HT0179-281099-076-h05 HT0179 Homo sapiens cDNA
7797	20492		3.72	8.0E-22	AA048502.1	EST_HUMAN	z67a08.t1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:487858 5'
650	13428	28067	5.92	7.0E-22	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
4250	16991	29816	2.21	7.0E-22	Q61838	SWISSPROT	ALPHA-2-MACROGLOBULIN PRECURSOR (ALPHA2M)
4977	17700	30307	0.99	7.0E-22	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
8590	21282		1.38	7.0E-22	AF151054.1	NT	Homo sapiens HSPC220 mRNA, complete cds
8731	21423	34568	3.66	7.0E-22	M78590.1	EST_HUMAN	EST00738 Fetal brain, Stratagene (cat#636206) Homo sapiens cDNA clone HFBGCF07
8502	22155	35335	2.04	7.0E-22	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
4038	16783	29413	0.98	6.0E-22	AA045040.1	EST_HUMAN	z165d10.t1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:742867 5'
8140	20834		1.33	6.0E-22	AW028123.1	EST_HUMAN	wx05g07.x1 NCI_CGAP_Gaa4 Homo sapiens cDNA clone IMAGE:2542812 3'
6424	19182	32188	3.78	5.0E-22	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
10217	22865	36077	7.83	5.0E-22	U60822.1	NT	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
12498	24854		2.22	5.0E-22	BF476511.1	EST_HUMAN	nas27108.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:3255898 3' similar to contains Alu repetitive element
3627	16390		0.85	4.0E-22	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
8004	20699	33827	0.45	4.0E-22	AV703223.1	EST_HUMAN	AV703223 ADB Homo sapiens cDNA clone ADBAUJE12 5'
8312	25428		3.11	4.0E-22	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
10623	23316	36556	2.47	4.0E-22	BF218030.1	EST_HUMAN	601882813F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4095434 5'
12657	24957		2.06	4.0E-22	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
939	13708		1.58	3.0E-22	A469679.1	EST_HUMAN	hm14h10.x1 NCI_CGAP_Cot14 Homo sapiens cDNA clone IMAGE:2156611 3' similar to gb:L19593 HIGH AFFINITY INTERLEUKIN-8 RECEPTOR B (HUMAN); contains L1.11 L1 repetitive element;
2576	15289	28028	0.92	3.0E-22	A1869098.1	EST_HUMAN	w168804.x1 NCI_CGAP_Bm26 Homo sapiens cDNA clone IMAGE:2429839 3' similar to SW-RL21_HUMAN
3682	16415		1.48	3.0E-22	D14718.1	NT	P49778 60S RIBOSOMAL PROTEIN L21.;
4748	17480	30111	2.6	3.0E-22	A1090125.1	EST_HUMAN	Human chromosomal protein HMGI related gene
8129	20823		0.8	3.0E-22	BE156813.1	EST_HUMAN	q628c07.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1687580 3' similar to contains MER12.12 MER12 repetitive element;
8134	20828	33963	2.46	3.0E-22	BE089841.1	EST_HUMAN	QV0-HT0368-090200-099-f12 HT0368 Homo sapiens cDNA
8258	20952	34088	0.97	3.0E-22	X60660.1	NT	RC5-BT0707-150300-021-H10 BT0707 Homo sapiens cDNA
8258	20952	34089	0.97	3.0E-22	X60660.1	NT	R.rattus RY2G5 mRNA for a potential ligand-binding protein
1946	14881		2.29	2.0E-22	N24942.1	EST_HUMAN	R.rattus RY2G5 mRNA for a potential ligand-binding protein
2526	15242	27981	2.15	2.0E-22	P24916	SWISSPROT	yk73005.st Soares_melanocyte_2NBHM Homo sapiens cDNA clone IMAGE:267369 3'
							IMMEDIATE EARLY GENE 13 PROTEIN PRECURSOR

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3414	16172	28821	4.41	2.0E-22	8394043	NT	Homo sapiens protein kinase, AMP-activated, gamma 3 non-catalytic subunit (PRKAG3), mRNA
4200	16941	28567	1.17	2.0E-22	AW817784.1	EST_HUMAN	PM1-ST0262-261169-001-d12 ST0262 Homo sapiens cDNA
5761	25075	31476	1.18	2.0E-22	W39456.1	EST_HUMAN	z220f01.1 Soares_senescent_fibroblasts_NHISF Homo sapiens cDNA clone IMAGE:322873 5' similar to
6084	18852	31828	3.68	2.0E-22	BF092116.1	EST_HUMAN	gb:X72308 MONOCYTE CHEMOTACTIC PROTEIN 3 PRECURSOR (HUMAN);
9602	22255	35440	1.53	2.0E-22	A1276522.1	EST_HUMAN	RC0-TN0079-150800-026-h12 TN0079 Homo sapiens cDNA
9698	22347	35540	0.69	2.0E-22	AA715315.1	EST_HUMAN	q176h08.x1 Soares_NHIMPu_S1 Homo sapiens cDNA clone IMAGE:1876239 3' similar to contains
9698	22347	35541	0.69	2.0E-22	AA715315.1	EST_HUMAN	MER29.s3 MER29 repetitive element;
11761	24352	37684	1.68	2.0E-22	AA715315.1	EST_HUMAN	nv04h11.s1 NCI_CGAP_P22 Homo sapiens cDNA clone IMAGE:1219269 3'
11872	24946	30983	3.71	2.0E-22	AW418980.1	EST_HUMAN	nv04h11.s1 NCI_CGAP_P22 Homo sapiens cDNA clone IMAGE:1219269 3'
1871	14609	27320	1.79	1.0E-22	AW85517.1	EST_HUMAN	haz24f04.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2874955 3'
2588	16302	28038	1.1	1.0E-22	U60871.1	NT	Homo sapiens chromosome 21 segment HS21C080
3405	16163	28814	1.37	1.0E-22	D14547.1	NT	PM4-SN0020-010400-009-h02 SN0020 Homo sapiens cDNA
7641	20308	32415	0.89	1.0E-22	BE084667.1	EST_HUMAN	Human familial Alzheimer's disease (STM2) gene, complete cds
10451	23097	36328	0.79	1.0E-22	A1365435.1	EST_HUMAN	Human DNA, SINE repetitive element
10451	23097	36329	0.79	1.0E-22	A1365435.1	EST_HUMAN	MRO-B1T0659-220200-002-h07 BT0659 Homo sapiens cDNA
12704	24984	26859	5.89	9.0E-23	AW802801.1	EST_HUMAN	q209b07.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2020881 3' similar to contains MER29.b2
3557	16312	26859	0.79	8.0E-23	AF198349.1	NT	q209b07.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2020881 3' similar to contains MER29.b2
3305	16065	36895	2.55	7.0E-23	AV647246.1	EST_HUMAN	MER29 repetitive element;
10668	23642	36895	4.16	7.0E-23	5031952	NT	IL2LJM0076-070400-061-F11 UM0076 Homo sapiens cDNA
3427	16184	29601	1.72	6.0E-23	AF198333.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
4235	16976	29601	1.39	6.0E-23	AL103249.2	NT	AV647246 GLC Homo sapiens cDNA clone GLCAWC07 3'
12005	24540	31105	1.5	6.0E-23	AF224699.1	NT	Homo sapiens Not56 (D. melanogaster)-like protein (NOT56L) mRNA
12005	24540	31106	1.5	6.0E-23	AF224699.1	NT	Rattus norvegicus RIM1B (Rim1B) mRNA, complete cds
12192	24663	31067	3.28	6.0E-23	A1209130.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C049
5358	18160	30844	4.09	5.0E-23	U82671.2	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
							(UBE2D3) genes, complete cds
							Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
							(UBE2D3) genes, complete cds
							qg59c03.x1 Soares_testis_NHIT Homo sapiens cDNA clone IMAGE:1839460 3' similar to
							SW:MV10_MOUSE P23249 PROTEIN MOV-10.;
							Homo sapiens chromosome Xq28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12 (MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), caltractin (CALT), NAD(P)H dehydrogenase-like protein (NSDHL), and L1>

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6145	25086	31893	3.93	5.0E-23	AF179818.1	NT	Pongo pygmaeus olfactory receptor (PPY116) gene, partial cds
7337	25086	31893	3.37	5.0E-23	AF179818.1	NT	Pongo pygmaeus olfactory receptor (PPY116) gene, partial cds
6347	19117	32106	1.34	3.0E-23	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
6347	19117	32107	1.34	3.0E-23	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
7738	20434	33558	4.1	3.0E-23	AA130165.1	EST_HUMAN	z85g09.r1 Soares_pregnant_uterus_Nb1-fpu Homo sapiens cDNA clone IMAGE:503968 5' similar to contains MER29.12 MER29 repetitive element;
9148	21879	35045	2.96	3.0E-23	Z70694.1	NT	Human endogenous retroviral element HC2
9148	21879	35046	2.98	3.0E-23	Z70694.1	NT	Human endogenous retroviral element HC2
10215	22863		1.18	3.0E-23	AW897827.1	EST_HUMAN	RC3-NN0068-270400-011-h01 NN0068 Homo sapiens cDNA
651	13429	26068	4.25	2.0E-23	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), X13 gene and LZTFL1 gene
1120	15520		3.87	2.0E-23	M55270.1	NT	Human matrix Gla protein (MGF) gene, complete cds
2798	15503	28243	1.98	2.0E-23	P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
2798	15503	28244	1.98	2.0E-23	P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
3364	16123		1.46	2.0E-23	AJ201498.1	EST_HUMAN	qs73f11.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:1943757 3' similar to TR-Q15537 Q15537
3705	16458		3.35	2.0E-23	BE165980.1	EST_HUMAN	MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE.;
3958	16707	28348	3.66	2.0E-23	H59931.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
3958	16707	28347	3.65	2.0E-23	H59931.1	EST_HUMAN	yr16a02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205418 5'
							yr16a02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205418 5'
							Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
7772	20468		4.3	2.0E-23	AF280107.1	NT	
8742	21434	34579	1.21	2.0E-23	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
11991	24530		2.45	2.0E-23	M32658.1	NT	Human alcohol dehydrogenase gamma subunit (ADH3) gene, exon 1
12508	24960		2.87	2.0E-23	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
4492	17228	29857	1.1	1.0E-23	AL163252.2	NT	Homo sapiens chromosome 21 segment HS21C052
4714	17448		5.56	1.0E-23	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
6820	19382		3.28	1.0E-23	BE378471.1	EST_HUMAN	601238458F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608653 5'
							z462c06.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:782698 5' similar to contains PTR5.12 PTR5 repetitive element;
8254	20948	34085	4.6	1.0E-23	AA448097.1	EST_HUMAN	601301782F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636254 5'
10570	23285	36503	2.05	1.0E-23	BE409843.1	EST_HUMAN	601301782F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636254 5'
10570	23285	36504	2.05	1.0E-23	BE409843.1	EST_HUMAN	601301782F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636254 5'
							eb75a08.s1 Stratiogene fetal retina 937202 Homo sapiens cDNA clone IMAGE:852768 3' similar to TR-E19822 E19822 CA PROTEIN.;
539	13322		1.84	9.0E-24	AA663213.1	EST_HUMAN	Homo sapiens capping protein (actin filament) muscle Z-fibre, alpha 2 (CAPZA2), mRNA
6357	16127	32121	1.53	8.0E-24	11422027	NT	

Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3853	16603		1.49	7.0E-24	AW837954.1	EST_HUMAN	QV0-DT0047-170200-122-a08 DT0047 Homo sapiens cDNA
5087	17808		0.95	7.0E-24	AL039498.1	EST_HUMAN	DKFZp344A2311_1 434 (synonym: hbs3) Homo sapiens cDNA clone DKFZp344A2311 5'
10536	23233		1.33	7.0E-24	AW303317.1	EST_HUMAN	xv1703.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813405 3' similar to contains Alu repetitive element; contains MER19.12 MER19 repetitive element;
680	13465		2.72	6.0E-24	AB001421.1	NT	Macaca fuscata mRNA for Testis-Specific Protein Y (TSPY), complete cds
818	13589	28256	11.74	6.0E-24	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
3853	16703	29342	7.9	5.0E-24	AJ229043.1	NT	Homo sapiens 950 kb config between AML1 and CBR1 on chromosome 21q22, segment 3/3
7657	20321	33430	0.58	5.0E-24	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11585	24194	37513	1.45	5.0E-24	AW514229.1	EST_HUMAN	hd24x03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910413 3' similar to TR:O94851
5840	18828	31563	3.85	4.0E-24	AA504178.1	EST_HUMAN	O94851 KIAA0750 PROTEIN;
8581	21273	34411	1.35	4.0E-24	AW813711.1	EST_HUMAN	ms31h05.s1 NCI_CGAP_Gest1 Homo sapiens cDNA clone IMAGE:1085529 3' similar to SW:POL_MLYRK
11133	23801	37078	1.95	4.0E-24	BE544822.1	EST_HUMAN	P31795 POL POLYPROTEIN;
12361	24765	31062	4.89	4.0E-24	AB028016.1	NT	RC3-ST0197-130100-014-408 ST0197 Homo sapiens cDNA
12595	24951	30886	1.77	4.0E-24	11418318	NT	601078812F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3464498 5'
8322	21015		2.85	3.0E-24	AW614871.1	EST_HUMAN	Homo sapiens mRNA for KIAA1083 protein, partial cds
8377	21070		1.57	3.0E-24	AW962076.1	EST_HUMAN	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
8385	21940	35114	4.33	3.0E-24	AL163252.2	NT	h168c08.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2867850 3' similar to contains MER29.b2
12438	24808	31045	1.41	3.0E-24	BF127782.1	EST_HUMAN	MER29 repetitive element;
2346	15089	27806	2.72	2.0E-24	AA167539.1	EST_HUMAN	EST174149 IMAGE resequences, MAGG Homo sapiens cDNA
3778	16531		1.01	2.0E-24	AW898189.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C052
7374	20054	33135	0.81	2.0E-24	AF088824.1	NT	601810446F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053398 5'
7378	20059	33138	0.65	2.0E-24	AJ003536.1	EST_HUMAN	zp11f09.t1 Strategene fetal retina 637202 Homo sapiens cDNA clone IMAGE:609161 5'
8039	21331	34478	3.28	2.0E-24	AL119158.1	EST_HUMAN	RC3-NIN0088-090500-021-b03 NIN0088 Homo sapiens cDNA
8878	21368		0.98	2.0E-24	H69214.1	EST_HUMAN	Mus musculus rho/rac-interacting citron kinase (Crik) mRNA, complete cds
9754	22405	35611	0.94	2.0E-24	A1521759.1	EST_HUMAN	AJ003536 Selected chromosome 21 cDNA library Homo sapiens cDNA clone MPIp12-6H13
9754	22405	35612	0.94	2.0E-24	A1521759.1	EST_HUMAN	DKFZp761L1712_1 761 (synonym: hary2) Homo sapiens cDNA clone DKFZp761L1712 5'
11825	24409	37744	1.31	2.0E-24	AW868552.1	EST_HUMAN	Y82809.t1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:212729 5' similar to contains
11825	24409	37745	1.31	2.0E-24	AW868552.1	EST_HUMAN	MER28 repetitive element;
12281	25377		7.44	2.0E-24	M28877.1	NT	Human O family dispersed repeat element

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1691	14435	27131	2.69	1.0E-24	7706340	NT	Homo sapiens CGI-127 protein (LOC51646), mRNA
2679	15388		1.63	1.0E-24	AW820194.1	EST_HUMAN	QV0-ST0294-100400-185-c10 ST0294 Homo sapiens cDNA
3020	15786	28433	1.49	1.0E-24	D86423.1	NT	Mus musculus mRNA for HGT keratin, partial cds
4237	16878		1.71	1.0E-24	AF149313.1	NT	Homo sapiens PTEN (PTEN) gene, exon 2
7447	20123	33214	4.32	1.0E-24	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
7630	20296	33404	0.81	1.0E-24	BE144528.1	EST_HUMAN	MR0-HT0168-271199-005-d09 HT0168 Homo sapiens cDNA
7845	20540	33667	2.09	1.0E-24	AW801164.1	EST_HUMAN	CM0-NN1010-130300-281-d07 NN1010 Homo sapiens cDNA
11699	24294	37619	1.31	9.0E-25	7706707	NT	Homo sapiens putative secreted protein (SIG11), mRNA
4939	17667	30275	2.33	7.0E-25	AA483944.1	EST_HUMAN	nc92e10.e1 NCI_CGAP_Kid1 Homo sapiens cDNA clone IMAGE:911754 similar to contains MER1.b2 MER1 repetitive element;
8117	20811	33946	6.59	7.0E-25	AA468946.1	EST_HUMAN	nc06608.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:880408 3' similar to contains THR.b2 THR repetitive element;
11701	24296	37622	3.28	7.0E-25	AA683540.1	EST_HUMAN	nc25e10.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:914843 similar to SW:R14A_YEAST P39105 PROBABLE 60S RIBOSOMAL PROTEIN L14EA;
6893	17669		4.8	6.0E-25	W187823.1	EST_HUMAN	zh65h07.f1 Soares fetal liver spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416889 5'
7622	20288	33397	8.34	6.0E-25	7305360	NT	Mus musculus dogelin (Otag), mRNA
1647	14393	27083	1.18	5.0E-25	AW850271.1	EST_HUMAN	IL3-CT0219-161199-031-D04 CT0219 Homo sapiens cDNA
11266	23947	37242	2.44	5.0E-25	AW979107.1	EST_HUMAN	EST391217 MAGE resequences, MAGP Homo sapiens cDNA
1429	14176	26861	2.25	4.0E-25	T98107.1	EST_HUMAN	ye58h04.f1 Soares fetal liver spleen_1NFLS Homo sapiens cDNA clone IMAGE:121783 5'
3397	16155		3.04	4.0E-25	AW887671.1	EST_HUMAN	PM3-OT0093-280200-001-g07 OT0093 Homo sapiens cDNA
4282	17021		2.93	4.0E-25	BE170857.1	EST_HUMAN	QV3-HT0543-140400-149-e11 HT0543 Homo sapiens cDNA
3314	16074	28724	3.98	3.0E-25	8623321	NT	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA
3314	16074	28725	3.98	3.0E-25	8623321	NT	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA
4837	17568	30180	0.75	3.0E-25	P28622	SWISSPROT	KALLISTATIN PRECURSOR (KALLIKREIN INHIBITOR) (PROTEASE INHIBITOR 4)
6518	18284	32288	0.6	3.0E-25	AA603590.1	EST_HUMAN	np27f02.e1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:1117515 3' similar to gb:M61866 ZINC FINGER PROTEIN 85 (HUMAN);
8235	20929	34065	4.86	3.0E-25	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
10959	23635	36886	1.99	3.0E-25	AA678013.1	EST_HUMAN	nc30h10.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:916331 similar to contains L1.L1 L1 repetitive element;
1326	14075	26749	2.94	2.0E-25	5932158	NT	Homo sapiens transducin (beta)-like 1 (TBL1), mRNA
2306	15031	27768	6.42	2.0E-25	BE888016.1	EST_HUMAN	601511530F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913087 5'
2835	15259	27997	3.67	2.0E-25	P17008	SWISSPROT	40S RIBOSOMAL PROTEIN S16
4167	16907	29535	1.76	2.0E-25	P17008	SWISSPROT	40S RIBOSOMAL PROTEIN S16
4167	16907	29536	1.76	2.0E-25	P17008	SWISSPROT	40S RIBOSOMAL PROTEIN S16

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9665	22317	36514	1.94	2.0E-26	AL449573.1	EST_HUMAN	AL449573 Homo sapiens Testis (Starvies GS) Homo sapiens cDNA
365	15163	25794	1.03	1.0E-26	AL040229.1	EST_HUMAN	DKFZp434f0313_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434f0313 5'
1226	13976		2.02	1.0E-26	9835487	NT	Human endogenous retrovirus, complete genome
2435	15166	27800	1.03	1.0E-25	Q06055	SWISSPROT	ATP SYNTHASE LIPID-BINDING PROTEIN P2 PRECURSOR (ATPASE PROTEIN 9) (SUBUNIT C)
4806	17537	30180	2.84	1.0E-25	BE162737.1	EST_HUMAN	PM1-IT0454-080100-002-h09 HT0454 Homo sapiens cDNA
6472	18239		0.79	1.0E-25	AA189080.1	EST_HUMAN	zq45b08.s1 Striatagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632627 3' similar to contains Alu repetitive element
6889	25100	32657	3.14	1.0E-25	AA582880.1	EST_HUMAN	nt54h11.s1 NCI CGAP_Kid8 Homo sapiens cDNA clone IMAGE:1087749 3'
7814	20509	33633	4.03	1.0E-25	AA709079.1	EST_HUMAN	zif6g04.s1 Soares_fetal_heart_NbtHH19W Homo sapiens cDNA clone IMAGE:384822 3' similar to contains PTR5.13 PTR5 repetitive element
9446	22123	35302	0.75	1.0E-25	X60860.1	NT	R.rattus RY2G5 mRNA for a potential ligand-binding protein
9446	22123	35303	0.75	1.0E-25	X60860.1	NT	R.rattus RY2G5 mRNA for a potential ligand-binding protein
10860	23570	36821	3.06	1.0E-25	U63163.1	NT	Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds
12768	25024		2.18	1.0E-25	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
2487	15204	27945	1.41	9.0E-26	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
6807	18403		1.99	8.0E-26	D14847.1	NT	Human DNA, SINE repetitive element
1571	14318	27003	1.72	7.0E-26	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
3962	16711	28351	1.23	7.0E-26	X89211.1	NT	H.sapiens DNA for endogenous retroviral like element
4138	16880	28508	2.27	7.0E-26	AW340153.1	EST_HUMAN	hd02e12.x1 Soares_NFL_T_GBC_31 Homo sapiens cDNA clone IMAGE:2808366 3'
5551	18348	31257	0.62	7.0E-26	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
11689	24284		8.45	7.0E-26	AA115895.1	EST_HUMAN	zn30d08.l1 Striatagene neuroepithelium NT2RAMI 837234 Homo sapiens cDNA clone IMAGE:548943 5' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
12547	24885		1.94	7.0E-26	AW854559.1	EST_HUMAN	EST366628 MAGE resequences, MAGC Homo sapiens cDNA
2222	14650	27689	2.04	6.0E-26	AF028308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
3341	16100	28752	0.95	6.0E-26	AA206131.1	EST_HUMAN	zq52h04.l1 Striatagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:945271 5'
10432	23078	36301	0.68	6.0E-26	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
10432	23078	36302	0.68	6.0E-26	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
11683	24278	37600	2.03	6.0E-26	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1154	13909	26572	3.61	5.0E-26	AI708235.1	EST_HUMAN	as38h08.x1 Barsheed aorta HPLR98 Homo sapiens cDNA clone IMAGE:2318519 3' similar to WP:F49C12.11 CE03371

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1154	13909	26573	3.61	5.0E-26	AI708235.1	EST_HUMAN	asc38f08.x1 Barstead aorta HPLR86 Homo sapiens cDNA clone IMAGE:2318519 3' similar to
1635	14282		1.4	4.0E-26	AA329548.1	EST_HUMAN	WP:F49C12.11 CE03371 :
9312	21978		3.72	4.0E-26	7657670	NT	EST33448 Embryo, 12 week II Homo sapiens cDNA 5' end
10558	23254	36491	2.75	4.0E-26	BE268187.1	EST_HUMAN	Homo sapiens upstream binding transcription factor, RNA polymerase I (UBTF), mRNA
1753	14495	27194	1.21	3.0E-26	D14547.1	NT	601191345F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3535210 5'
1696	14732	27454	1.31	3.0E-26	AL045855.2	EST_HUMAN	Human DNA, SINE repetitive element
							DKFZp434i066_r1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434i066 5'
2025	14760		3.15	3.0E-26	AA115895.1	EST_HUMAN	zn30d08.r1 Stratagene neuroepithelium NT2RAMI 937234 Homo sapiens cDNA clone IMAGE:548943 5'
							similar to gp:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
3760	16512	29148	1.04	3.0E-26	AA152494.1	EST_HUMAN	zn30f10.r1 Stratagene colon (#837204) Homo sapiens cDNA clone IMAGE:588427 5' similar to TR:G685374
							G685374 THYROID RECEPTOR INTERACTOR :
3760	16512	29149	1.04	3.0E-26	AA152494.1	EST_HUMAN	zn30f10.r1 Stratagene colon (#837204) Homo sapiens cDNA clone IMAGE:588427 5' similar to TR:G685374
6811	19472	32495	1.78	3.0E-26	BF245458.1	EST_HUMAN	G685374 THYROID RECEPTOR INTERACTOR :
10626	23319		1.42	3.0E-26	AF036405.1	NT	601894963F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4083278 5'
11559	24158	37468	1.83	3.0E-26	AW876651.1	EST_HUMAN	Homo sapiens MLL (MLL) gene, exons 1-3, and partial cds
11559	24158	37469	1.83	3.0E-26	AW876651.1	EST_HUMAN	QV2-PT0012-040400-124-e05 PT0012 Homo sapiens cDNA
							QV2-PT0012-040400-124-e05 PT0012 Homo sapiens cDNA
11602	24201	37523	6.58	3.0E-26	AA583173.1	EST_HUMAN	tm37d05.s1 NCI_CGAP_GC5 Homo sapiens cDNA clone IMAGE:1086057 3' similar to contains ORF.11
11858	24442	37783	1.36	3.0E-26	AF228925.1	NT	OFR repetitive element :
							Mus musculus hamonin isoform b3 (Ush1c) mRNA, complete cds, alternatively spliced
12724	24995		2.52	3.0E-26	AW073434.1	EST_HUMAN	xa57b08.x1 NCI_CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2570873 3' similar to contains MER30.11
686	13442	28083	6.78	2.0E-26	AL163282.2	NT	MER30 repetitive element :
1861	14589		3.07	2.0E-26	AL038099.2	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C082
3225	15888	28642	5.89	2.0E-26	X86894.1	NT	DKFZp568L171_s1_568 (synonym: hhd2) Homo sapiens cDNA clone DKFZp568L171 3'
5147	17868		1.09	2.0E-26	AF073482.1	NT	M.musculus mRNA for astrocytic phosphoprotein, PEA-15
10653	23344		2.7	2.0E-26	D87675.1	NT	Homo sapiens myotubularin related protein 7 mRNA, partial cds
							Homo sapiens DNA for amyloid precursor protein, complete cds
11180	23948	37132	3	2.0E-26	AB01412.1	EST_HUMAN	tb89d01.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2185416 3' similar to contains Alu
11395	24001		2.45	2.0E-26	AF055066.1	NT	repetitive element; contains element MER20 MER20 repetitive element ;
12106	24603		1.57	2.0E-26	AB037859.1	NT	Homo sapiens MHC class 1 region
133	12948	25591	5.18	1.0E-26	BE170371.1	EST_HUMAN	Homo sapiens mRNA for KIAA1438 protein, partial cds
2040	14774	27503	1.37	1.0E-26	AL038963.2	EST_HUMAN	QV4-HT0538-020300-123-e02 HT0538 Homo sapiens cDNA
2693	15402		9.04	1.0E-26	AF261085.1	NT	DKFZp434H1910_r1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434H1910 5'
							Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GADPH) mRNA, complete cds

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6740	19574		3.05	1.0E-28	BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
10809	23492		2.21	1.0E-28	AL038487.1	EST_HUMAN	DKFZp566C2146_j1 568 (synonym: hfrd2) Homo sapiens cDNA clone DKFZp566C2146 5'
12348	25395		3.53	1.0E-28	H55083.1	EST_HUMAN	CHR220032 Chromosome 22 exon Homo sapiens cDNA clone C22_45 5'
7484	20156		1.11	9.0E-27	BF371227.1	EST_HUMAN	RC8-FN0138-110800-022-A02 FN0138 Homo sapiens cDNA
8203	22082		4.14	9.0E-27	U93163.1	NT	Homo sapiens IMAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds
11875	24454		5.72	9.0E-27	BF445558.1	EST_HUMAN	ncs03c07.x1 NCL_CGAP_P28 Homo sapiens cDNA clone IMAGE:3253844 3' similar to contains OFR.H
10	12837	25450	3.83	8.0E-27	AI831462.1	EST_HUMAN	W49c04.x1 NCL_CGAP_Lut19 Homo sapiens cDNA clone IMAGE:2408150 3' similar to contains THR.b2
544	13327		4.33	8.0E-27	AL163227.2	NT	THR repetitive element ; Homo sapiens chromosome 21 segment HS21C027
1395	14142	26819	59.39	8.0E-27	AW162737.1	EST_HUMAN	au87h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783295 3' similar to gb:K00558 TUBULIN ALPHA-1 CHAIN (HUMAN);
1395	14142	26820	59.39	8.0E-27	AW162737.1	EST_HUMAN	au87h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783295 3' similar to gb:K00558 TUBULIN ALPHA-1 CHAIN (HUMAN);
2164	14893	27629	1.37	8.0E-27	AW884776.1	EST_HUMAN	PM2-SN0018-220300-002-a07 SN0018 Homo sapiens cDNA
3180	15943	28594	1.81	8.0E-27	P12236	SWISSPROT	ADP.ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE NUCLEOTIDE TRANSLOCATOR 3) (ANT 3)
3348	16107	28762	0.81	8.0E-27	AF181887.1	NT	Homo sapiens WRN (WRN) gene, complete cds
5608	18404	31317	1.02	8.0E-27	AV732214.1	EST_HUMAN	AV732214 HTF Homo sapiens cDNA clone HTFBC08 5'
6881	17957		2.63	8.0E-27	BE926560.1	EST_HUMAN	MR4-BT0398-260800-204-d08 BT0398 Homo sapiens cDNA
6947	19429	32444	2.29	8.0E-27	N84970.1	EST_HUMAN	J1751F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J1751 5' similar to REPETITIVE ELEMENT L1
9109	21797	34981	1.51	8.0E-27	AW857579.1	EST_HUMAN	GM1-CT0315-091298-063-d07 CT0315 Homo sapiens cDNA
9109	21797	34982	1.51	8.0E-27	AW857579.1	EST_HUMAN	GM1-CT0315-091298-063-d07 CT0315 Homo sapiens cDNA
688	18444		1.23	7.0E-27	Z70684.1	NT	Human endogenous retroviral element HC2
5030	17750		2.25	7.0E-27	AW629172.1	EST_HUMAN	hi51h12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2975879 3' similar to TR-O76040
8756	21448		1.19	7.0E-27	D96984.1	NT	O76040 ORF2 FUNCTION UNKNOWN ; Human mRNA for KIAA0231 gene, partial cds
10850	23341		4.28	7.0E-27	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
12484	24843		2.12	7.0E-27	AV723965.1	EST_HUMAN	AV723965 HTB Homo sapiens cDNA clone HTBAHE02 5'
10627	23320	36558	2.75	6.0E-27	M26897.1	NT	Human nucleolar protein (B23) mRNA, complete cds
11804	24394	37728	1.57	6.0E-27	U93163.1	NT	Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10137	22785	35896	2.82	5.0E-27	BF686014.1	EST_HUMAN	602121491F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4278527 5'
10137	22785	35897	2.82	5.0E-27	BF686014.1	EST_HUMAN	602121491F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4278527 5'
6845	19407	32421	1.65	4.0E-27	6910569	NT	Mus musculus sperm tail associated protein (Slap), mRNA
7840	20535		1.07	4.0E-27	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
7863	20578		1.54	4.0E-27	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
9844	22296	35491	0.7	4.0E-27	AW80859.1	EST_HUMAN	QV0-OT0033-070300-152-b10 OT0033 Homo sapiens cDNA
11604	24203	37525	1.98	4.0E-27	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
2034	14769	27489	4.61	3.0E-27	X60698.1	NT	R. rattus RYA3 mRNA for a potential ligand-binding protein
4238	16979	29604	1.06	3.0E-27	BE071924.1	EST_HUMAN	PM0-BT0527-060100-001-d11 BT0527 Homo sapiens cDNA
5282	18068	30697	6.24	3.0E-27	AA077705.1	EST_HUMAN	7B44C08 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B44C08
7688	20361	33475	0.63	3.0E-27	BE070351.1	EST_HUMAN	763302.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284263 3'
9205	22084	35256	2.93	3.0E-27	BF036327.1	EST_HUMAN	601458531F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862088 5'
40	12868	25487	14.84	2.0E-27	AF054187.1	NT	Homo sapiens alpha NAC mRNA, complete cds
1888	14625		5.12	2.0E-27	AA565345.1	EST_HUMAN	nt01b10.s1 NCL_CGAP_P111 Homo sapiens cDNA clone IMAGE:1000869 similar to gb:M17886 60S
3107	15872		10.39	2.0E-27	AW628172.1	EST_HUMAN	h15h112.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2975879 3' similar to TR:O78040
3218	15981	28632	1.96	2.0E-27	AF111167.2	NT	O78040 ORF2: FUNCTION UNKNOWN. ;
3218	15981	28633	1.96	2.0E-27	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
4009	16755	29385	1.36	2.0E-27	AF000368.1	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
6577	19340	32363	0.61	2.0E-27	H02655.1	EST_HUMAN	Rattus norvegicus voltage-gated sodium channel mRNA, complete cds
7989	20684	33810	1.65	2.0E-27	A1866347.1	EST_HUMAN	y35e01.1 Soares placenta Nb2-IP Homo sapiens cDNA clone IMAGE:150840 5' similar to SP:HMGC_MOUSE Q02891 HOMEBOX PROTEIN ;
9169	21839		2.3	2.0E-27	AA551527.1	EST_HUMAN	w28g07.x1 NCL_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2426268 3'
9691	22342	39536	0.76	2.0E-27	X60698.1	NT	nt08h05.s1 NCL_CGAP_P111 Homo sapiens cDNA clone IMAGE:943737 similar to contains L1.8 L1 repetitive element ;
9895	22583	35782	1.28	2.0E-27	M78590.1	EST_HUMAN	R. rattus RYA3 mRNA for a potential ligand-binding protein
9895	22583	35783	1.28	2.0E-27	M78590.1	EST_HUMAN	EST100798 Fetal brain, Striatum (cat#036206) Homo sapiens cDNA clone HFB07
10875	23555	36802	4.11	2.0E-27	AU121685.1	EST_HUMAN	EST100798 Fetal brain, Striatum (cat#036206) Homo sapiens cDNA clone HFB07
11469	14625		3.31	2.0E-27	AA565345.1	EST_HUMAN	AU121685 MAMMA1 Homo sapiens cDNA clone MAMMA1000746 5'
426	13212		1.51	1.0E-27	AL163246.2	NT	nt01b10.s1 NCL_CGAP_P111 Homo sapiens cDNA clone IMAGE:1000869 similar to gb:M17886 60S
							ACIDIC RIBOSOMAL PROTEIN P1 (HUMAN);
							Homo sapiens chromosome 21 segment HS21C046

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
976	13741	26404	1.34	1.0E-27	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4061	16808		0.98	1.0E-27	BE350127.1	EST_HUMAN	h08g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER28.b3
6449	19217	32215	6.26	1.0E-27	6005855	NT	MER29 repetitive element ;
6771	19515	32542	1.96	1.0E-27	F30158.1	EST_HUMAN	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
6771	19515	32543	1.96	1.0E-27	F30158.1	EST_HUMAN	HSPD20461 HM3 Homo sapiens cDNA clone s4000095C10
8508	21200	34346	0.98	1.0E-27	AB007823.1	NT	HSPD20461 HM3 Homo sapiens cDNA clone s4000095C10
8884	21575		2.26	1.0E-27	BE078780.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
8822	22275	35463	2.55	1.0E-27	D87449.1	NT	RC9-BT0627-140200-011-E06 BT0627 Homo sapiens cDNA
11704	24299	37625	3.51	1.0E-27	AF111093.1	NT	Human mRNA for KIAA0250 gene, partial cds
137	12951		2.94	9.0E-28	BE348398.1	EST_HUMAN	Bos taurus latrophilin 3 splice variant bbah mRNA, complete cds
303	13107	25747	3.31	9.0E-28	AU126260.1	EST_HUMAN	hw17c11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183188 3' similar to TR:Q07314 Q07314
10289	22937	36150	0.63	9.0E-28	AA174078.1	EST_HUMAN	SECRETED NEUREXIN III-ALPHA-C PRECURSOR. [3] TR:Q07280 TR:Q07313 ;
11951	24504		4.85	9.0E-28	BF377859.1	EST_HUMAN	zp18g12.s1 Stratiopene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609862 3'
12268	25245		2.46	8.0E-28	AW157571.1	EST_HUMAN	CW2-TN0140-070900-372-g01 TN0140 Homo sapiens cDNA
1158	13913	26576	7.89	7.0E-28	AU142750.1	EST_HUMAN	eu83h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to
11142	23809	37089	3.36	7.0E-28	11417868	NT	TR:O60302 O60302 KIAA0555 PROTEIN. ; contains element MER22 repetitive element ;
11910	24474		2.78	7.0E-28	AV735348.1	EST_HUMAN	AU142750 Y78A11 Homo sapiens cDNA clone Y78A11000824 5'
8817	21509		0.97	6.0E-28	AF016052.1	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
12526	24873		2.35	6.0E-28	AA504562.1	EST_HUMAN	AV735348 CB Homo sapiens cDNA clone CBFACA12 5'
310	13114		4.19	5.0E-28	AB21003.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF191 (ZNF191) gene, complete cds
3930	16739	29372	1.44	5.0E-28	R79762.1	EST_HUMAN	sa60e03.1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:825340 5' similar to contains Alu
2631	15343	28037	1.68	4.0E-28	AW195068.1	EST_HUMAN	repetitive element; contains element PTR5 repetitive element ;
2978	15742	28389	0.78	4.0E-28	4505316	NT	w018c07.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2455582 3' similar to contains THR.b1
3106	15871	28511	2.52	4.0E-28	BE409100.1	EST_HUMAN	THR repetitive element ;
7230	19915	32988	1.93	4.0E-28	AI08841.1	EST_HUMAN	y89f10.1 Scores placenta Nb2HP Homo sapiens cDNA clone IMAGE:148443 5'
							xn53c09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2695504 3' similar to SW:G085_HUMAN
							Q08379 GOLGIN-95 ;
							Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
							601300703F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635305 5'
							q08f10.x1 Scores Testis_NHT Homo sapiens cDNA clone IMAGE:1755019 3' similar to gb:M19503 LINE-1
							REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10774	23457		3.08	4.0E-28	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
10828	23608		17.24	4.0E-28	AB038241.1	NT	Felis catus GAPDH mRNA for glyceraldehyde-3-phosphate dehydrogenase, complete cds
10850	19916	323888	4.75	4.0E-28	AI198941.1	EST_HUMAN	qf88f10.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1755019 3' similar to gb-M19503 LINE-1
12312	24734		1.84	4.0E-28	AW854244.1	EST_HUMAN	REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);
1260	14009		2.88	3.0E-28	AF155382.1	NT	Homo sapiens metalloprotease-like, disintegrin-like, cysteine-rich protein 2 epsilon (ADAM22) mRNA, complete cds
5051	17770		1.05	3.0E-28	AF009680.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
8728	21418	345682	1.89	3.0E-28	BF354030.1	EST_HUMAN	MR3-HT0713-280500-013-009 HT0713 Homo sapiens cDNA
10853	23533	36778	2.09	3.0E-28	U63588.1	NT	Homo sapiens MHC class 1 region
12344	24751		3.62	3.0E-28	AB819891.1	EST_HUMAN	wj98f07.x1 NCI CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2410885 3' similar to contains Alu repetitive element; contains element HGR repetitive element:
87	12913	25551	10.8	2.0E-28	BE062167.1	EST_HUMAN	RC1-BT0254-220300-019-c05 BT0254 Homo sapiens cDNA
1023	13783	26444	0.86	2.0E-28	4501912	NT	Homo sapiens a disintegrin and metalloprotease domain 23 (ADAM23) mRNA
1142	13897	26558	16.03	2.0E-28	Y11107.3	NT	Homo sapiens ITGB4 gene for integrin beta 4 subunit, exons 3-41
2481	15189	27839	2.1	2.0E-28	AB348634.1	EST_HUMAN	q035608.x1 NCI CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1910483 3' similar to contains L1.b2 L1 repetitive element;
6215	18889	31968	1.33	2.0E-28	BF224402.1	EST_HUMAN	fr76c03.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134404 3' similar to contains LOR1.b1 LOR1 repetitive element;
6238	19012		5.07	2.0E-28	BF212905.1	EST_HUMAN	601814186F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4048761 5'
7943	20638	33766	0.71	2.0E-28	AF06273.1	NT	Sus scrofa domestica submaxillary apomucin mRNA, complete cds
9484	22137		5.54	2.0E-28	AW972305.1	EST_HUMAN	EST384394 IMAGE resequences, MAGI Homo sapiens cDNA
11614	24212	37536	1.84	2.0E-28	AF224689.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
12322	24741		2.22	2.0E-28	H06376.1	EST_HUMAN	yf76c08.r1 Soares Infant brain TNIB Homo sapiens cDNA clone IMAGE:44300 5'
1461	14208	26896	2.84	1.0E-28	D38044.1	NT	Human gene for AII-receptor, exon 7-9
2217	14945	27686	2.37	1.0E-28	BF333238.1	EST_HUMAN	QV1-BT0821-120900-360-503 BT0821 Homo sapiens cDNA
7769	20455		3.2	1.0E-28	11429885	NT	Homo sapiens similar to ribosomal protein L12 (H. sapiens) (LOC53081), mRNA
7917	20612		3.3	1.0E-28	8822793	NT	Homo sapiens hypothetical protein FLJ10968 (FLJ10968), mRNA
9178	21848	35014	4.84	1.0E-28	AA308744.1	EST_HUMAN	EST179615 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' and similar to similar to retroviral LTR
9776	22427	35633	8.73	1.0E-28	4758431	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGT1A1), mRNA
9776	22427	35634	8.73	1.0E-28	4758431	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGT1A1), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10422	23068		0.63	1.0E-28	AU148356.1	EST_HUMAN	AU148356 NT2RM4 Homo sapiens cDNA clone NT2RM4002146 3'
11916	24478		7.79	1.0E-28	AA054182.1	EST_HUMAN	Zf51c01.1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:380448 5'
12651	25143		1.88	1.0E-28	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
12749	25346	30603	3.18	9.0E-28	AW663987.1	EST_HUMAN	h176g06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2978266 3'
12436	24806		3.32	8.0E-28	Q00130	SWISSPROT	HYPOTHETICAL GENE 50 PROTEIN
1598	14344	27034	1.37	7.0E-28	AW668447.1	EST_HUMAN	EST378521 MAGE resequences, MAGI Homo sapiens cDNA
12794	25045		7.13	7.0E-28	AJ132352.1	NT	Rattus norvegicus mRNA for 45 kDa secretory protein, partial
581	13361	25989	16.66	6.0E-28	AI936748.1	EST_HUMAN	wp68b01.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2466985 3' similar to TR:O15475
12201	24669		8.09	8.0E-28	BE940436.1	EST_HUMAN	O15475 UNNAMED HERV-H PROTEIN ;contains LTR7.b1 LTR7 repetitive element ;
12286	24717		1.72	6.0E-28	BF568097.1	EST_HUMAN	RC9-UT0082-210800-021-c06 UT0082 Homo sapiens cDNA
8630	21322		5.36	5.0E-28	AW887541.1	EST_HUMAN	602184092F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300079 5'
3226	15989		1.84	4.0E-28	AI752397.1	EST_HUMAN	RC3-OT0091-170300-011-c12 OT0091 Homo sapiens cDNA
5919	18704		7.91	4.0E-28	BE184930.1	EST_HUMAN	cn15002.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn15002 random
7979	20674	33797	0.55	4.0E-28	AI678101.1	EST_HUMAN	QV1-HT0471-280300-121-e05 HT0471 Homo sapiens cDNA
7979	20674	33798	0.55	4.0E-28	AI678101.1	EST_HUMAN	wd35g06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170 3' similar to contains
8844	21336	34480	6.21	4.0E-28	JO4988.1	NT	MER29.12 MER29 repetitive element ;
4361	17118	29751	1.4	3.0E-28	AB042297.1	NT	Human 80 kD heat shock protein gene, complete cds
4684	17418	30054	1.07	3.0E-28	BF333236.1	EST_HUMAN	Homo sapiens PIS gene for 6-pyruvoyltetrahydropterin synthase, complete cds
6841	18829	31564	1.18	3.0E-28	BE314018.1	EST_HUMAN	QV1-BT0821-120900-360-b03 BT0821 Homo sapiens cDNA
8632	21324	34465	2.87	3.0E-28	D38044.1	NT	601162867F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508527 5'
9200	21869	36034	1.69	3.0E-28	AW303317.1	EST_HUMAN	Human gene for AII-receptor, exon 7-9
9431	22109		1.87	3.0E-28	AL163246.2	NT	xv1703.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813405 3' similar to contains AIIu
9859	22509		0.81	3.0E-28	BE350127.1	EST_HUMAN	repetitive element;contains MER19.12 MER19 repetitive element ;
11235	23898	37185	1.47	3.0E-28	AA403053.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
12102	24600		1.53	3.0E-28	D63982.1	NT	h108g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.L3
12799	25376		7.53	3.0E-28	AA016177.1	EST_HUMAN	MER29 repetitive element ;
480	13265	25900	1.72	2.0E-28	AF084869.1	NT	Zf62b01.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726889 5' similar to TR:G1335769
							G1335769 GAG-POL POLYPROTEIN. ;
							Human HsLJM15 mRNA for HsLJM15, complete cds
							z632e09.s1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360712 3'
							Homo sapiens envelope protein RIC-6 (env) gene, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
480	13265	28901	1.72	2.0E-29	AF084668.1	NT	Homo sapiens envelope protein RIC-6 (env) gene, complete cds
1523	14270	28955	6.62	2.0E-29	A1863604.1	EST_HUMAN	wr65d10.x1 NCL CGAP_U11 Homo sapiens cDNA clone IMAGE:2492563 3' similar to TR:O15546 O15546 HERV-E ENVELOPE GLYCOPROTEIN;
1523	14270	28958	6.62	2.0E-29	A1863604.1	EST_HUMAN	wr65d10.x1 NCL CGAP_U11 Homo sapiens cDNA clone IMAGE:2492563 3' similar to TR:O15546 O15546 HERV-E ENVELOPE GLYCOPROTEIN;
4246	16987	28610	1.63	2.0E-29	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
5735	18527	31449	0.99	2.0E-29	A1082459.1	EST_HUMAN	cs71e04.x1 NCL CGAP_GC2 Homo sapiens cDNA clone IMAGE:1610814 3' similar to contains L1.12 L1 repetitive element;
6087	18986	31830	1.48	2.0E-29	A1806418.1	EST_HUMAN	w127g07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356860 3' similar to contains element MER6 repetitive element;
7489	18985	31830	1.36	2.0E-29	A1806418.1	EST_HUMAN	w127g07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356860 3' similar to contains element MER6 repetitive element;
7876	20571	33698	1.16	2.0E-29	BE867167.1	EST_HUMAN	601442206F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3846948 5'
8477	21169	34313	0.63	2.0E-29	10567821	NT	Homo sapiens DNA-binding protein (LOC56242), mRNA
8477	21169	34314	0.63	2.0E-29	10567821	NT	Homo sapiens DNA-binding protein (LOC56242), mRNA
9408	22070	35241	3.61	2.0E-29	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
9408	22070	35242	3.61	2.0E-29	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
10139	22787	35999	3.61	2.0E-29	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
10139	22787	36000	3.61	2.0E-29	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
10877	23557	36804	1.31	2.0E-29	BF025947.1	EST_HUMAN	601669934F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3952833 5'
11459	24063		2.04	2.0E-29	11425108	NT	Homo sapiens splicing factor similar to dnal (SPF31), mRNA
11499	24100		1.73	2.0E-29	AW880701.1	EST_HUMAN	QV0-OT0032-080300-155-d01 OT0032 Homo sapiens cDNA
8691	21383	34527	7.37	1.0E-29	AW983880.1	EST_HUMAN	RC1-HN0003-220300-021-b04 HN0003 Homo sapiens cDNA
10518	23164	36391	0.85	1.0E-29	X60658.1	NT	R. rattus RYA3 mRNA for a potential ligand-binding protein
6487	19254	32255	2.97	9.0E-30	AA761215.1	EST_HUMAN	nc20c07.s1 NCL CGAP_GC81 Homo sapiens cDNA clone IMAGE:1288332 3' similar to contains MER4.b1 MER4 repetitive element;
11892	24531		1.76	9.0E-30	11422745	NT	Homo sapiens zinc finger regulated transporter-like (ZIRTL), mRNA
6227	19001		8.94	8.0E-30	F08688.1	EST_HUMAN	HSC23F051 normalized infant brain cDNA Homo sapiens cDNA clone c-23f05
8186	20862	33904	3.72	8.0E-30	AA383873.1	EST_HUMAN	EST197317 Thymus 1 Homo sapiens cDNA 5' end similar to EST containing O family repeat
8583	21275	34412	3.1	8.0E-30	A1557072.1	EST_HUMAN	PT2.1_13 B11.r tumor2 Homo sapiens cDNA 3'
1505	14251		1.03	7.0E-30	BE091133.1	EST_HUMAN	PM4-BT0724-150400-004-d11 BT0724 Homo sapiens cDNA
1766	14508	27209	1.73	6.0E-30	D25303.1	NT	Human mRNA for integrin alpha subunit, complete cds
3185	15948	28598	2.3	6.0E-30	BE008028.1	EST_HUMAN	QV0-BN0147-280400-214-f12 BN0147 Homo sapiens cDNA
10437	23083	36310	0.48	6.0E-30	AF177227.1	NT	Homo sapiens CTCL tumor antigen se20-10 mRNA, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12769	17897		3.38	6.0E-30	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
3894	16742	28376	26.19	5.0E-30	A1399982.1	EST_HUMAN	ig2g03.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2116276 3' similar to contains Alu repetitive element
6189	26176		5.44	6.0E-30	U87931.1	NT	Human aconitase hydratase (ACO2) gene, exon 7
10802	23485		1.95	5.0E-30	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
11103	23773	37047	2.47	5.0E-30	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11103	23773	37048	2.47	5.0E-30	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
2139	14869	27599	1.72	4.0E-30	AW937471.1	EST_HUMAN	QV3-DT0043-080200-080-006 DT0043 Homo sapiens cDNA
2139	14869	27600	1.72	4.0E-30	AW937471.1	EST_HUMAN	QV3-DT0043-080200-080-006 DT0043 Homo sapiens cDNA
6756	17825	30560	0.63	4.0E-30	P11369	SWISSPROT	RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ;
8803	21495	34641	2.82	4.0E-30	AW812488.1	EST_HUMAN	ENDONUCLEASE1
1129	13885		2.11	3.0E-30	A1338551.1	EST_HUMAN	CM1-ST0181-091189-035-f08 ST0181 Homo sapiens cDNA
3740	16493	29128	0.93	3.0E-30	AF128893.1	NT	qq9c05.x1 Soares fetal_Nb2Hf8_9w Homo sapiens cDNA clone IMAGE:1938920 3' similar to contains MER29.b2 MER29 repetitive element ;
7852	20547		0.58	3.0E-30	AF078779.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-8
8385	21078		0.48	3.0E-30	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
							Rattus norvegicus putative four repeat ion channel mRNA, complete cds
							Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10333	22880	36200	1.7	3.0E-30	BE350127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3148256 3' similar to contains MER29.b3 MER29 repetitive element ;
10465	23111	36342	0.53	3.0E-30	AB032969.1	NT	Homo sapiens mRNA for KIAA1143 protein, partial cds
10465	23111	36343	0.53	3.0E-30	AB032969.1	NT	Homo sapiens mRNA for KIAA1143 protein, partial cds
11168	23835	37116	2.48	3.0E-30	P34056	SWISSPROT	TRANSCRIPTION FACTOR AP-2
680	13438	28077	0.92	2.0E-30	AW857315.1	EST_HUMAN	CM0-CT0307-310100-158-h03 CT0307 Homo sapiens cDNA
1062	13820		3.11	2.0E-30	F08688.1	EST_HUMAN	HSC23F051 normalized infant brain cDNA Homo sapiens cDNA clone c-23F05
1462	14209	26898	5.31	2.0E-30	BE175877.1	EST_HUMAN	RC5-HT0982-110400-013-H08 HT0982 Homo sapiens cDNA
2720	16427	28165	8	2.0E-30	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
2820	15686	28331	6.39	2.0E-30	AF114156.1	NT	Homo sapiens Y-linked zinc finger protein (ZFY) gene, complete cds
3769	16521	29100	2.26	2.0E-30	AW206581.1	EST_HUMAN	UH-HB1-efo-c-12-0-UJ.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722558 3'
4727	17459	30095	1.51	2.0E-30	BE298945.1	EST_HUMAN	601119860F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029438 5'
4727	17459	30096	1.51	2.0E-30	BE298945.1	EST_HUMAN	601119860F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029438 5'
6860	19420	32435	0.55	2.0E-30	BF306337.1	EST_HUMAN	601893208F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138983 5'
8375	21068	34208	0.45	2.0E-30	AA019103.1	EST_HUMAN	2e58c10.1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363188 5'
8435	21128	34285	4.66	2.0E-30	C18939.1	EST_HUMAN	C18939 Human placenta cDNA (TFujwara) Homo sapiens cDNA clone GEN-570C01 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8533	21225	34388	3.61	2.0E-30	BE670617.1	EST_HUMAN	7687c12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284682 3' similar to SW:DHSA_HUMAN P31040 SUCCINATE DEHYDROGENASE [UBIQUINONE] FLAVOPROTEIN SUBUNIT PRECURSOR;
8533	21225	34387	3.61	2.0E-30	BE670617.1	EST_HUMAN	7687c12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284682 3' similar to SW:DHSA_HUMAN P31040 SUCCINATE DEHYDROGENASE [UBIQUINONE] FLAVOPROTEIN SUBUNIT PRECURSOR;
9897	22547	35741	3.62	2.0E-30	AW671688.1	EST_HUMAN	EST383657 MAGE resequences, MAGL Homo sapiens cDNA
9892	22630	38639	7.37	2.0E-30	AW470791.1	EST_HUMAN	hs33406.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875489 3' similar to contains THR.L33 THR repetitive element;
280	13087	25729	16.33	1.0E-30	C18939.1	EST_HUMAN	C18939 Human placenta cDNA (TF-ujwara) Homo sapiens cDNA clone GEN-570C01 5'
525	13309	25942	2.34	1.0E-30	AW468897.1	EST_HUMAN	hs30604.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910991 3' similar to contains MER.13 MER1 MER1 repetitive element;
699	13474	26122	2.62	1.0E-30	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
2209	14937	27675	7.16	1.0E-30	AA664377.1	EST_HUMAN	ac7b08.s1 Strabagene lung (#837210) Homo sapiens cDNA clone IMAGE:868599 3'
2464	15182	27921	2.01	1.0E-30	BF347728.1	EST_HUMAN	602022560F1 NCI_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4157891 5'
3050	15916	28461	0.94	1.0E-30	AA315045.1	EST_HUMAN	EST186868 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end
7624	20290	33399	2.46	1.0E-30	BF183230.1	EST_HUMAN	601809832F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040894 5'
12581	25268		6.95	1.0E-30	H55593.1	EST_HUMAN	GHR220532 Chromosome 22 exon Homo sapiens cDNA clone C22_728 5'
3748	16501	29135	0.81	8.0E-31	IT3025.1	EST_HUMAN	yc65606.l1 Strabagene liver (#837224) Homo sapiens cDNA clone IMAGE:85570 5'
3748	16501	29136	0.81	9.0E-31	IT3025.1	EST_HUMAN	yc65606.l1 Strabagene liver (#837224) Homo sapiens cDNA clone IMAGE:85570 5'
8223	20917	34053	0.81	9.0E-31	R18214.1	EST_HUMAN	yc65606.l1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:30566 5' similar to gb:U12953 RAS- RELATED PROTEIN RAB-2 (HUMAN);
8223	20917	34054	0.81	9.0E-31	R18214.1	EST_HUMAN	yc65606.l1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:30566 5' similar to gb:U12953 RAS- RELATED PROTEIN RAB-2 (HUMAN);
8522	21214		1.63	9.0E-31	Z38293.1	EST_HUMAN	HSC05F032 normalized infant brain cDNA Homo sapiens cDNA clone c-05f03 3'
8524	21216	34359	0.48	9.0E-31	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
1054	13613	28473	2.41	8.0E-31	8823389	NT	Homo sapiens hypothetical protein FLJ20420 (FLJ20420), mRNA
2414	15135		4.6	8.0E-31	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
4861	17590	30213	1.43	8.0E-31	P23275	SWISSPROT	OLFACTORY RECEPTOR 15 (OR3)
4861	17590	30214	1.43	8.0E-31	P23275	SWISSPROT	OLFACTORY RECEPTOR 15 (OR3)
2674	15383	28123	3.29	7.0E-31	BE326517.1	EST_HUMAN	hw05at11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182012 3'
2674	15383	28124	3.29	7.0E-31	BE326517.1	EST_HUMAN	hw05at11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182012 3'
8300	20984	34130	0.96	7.0E-31	AF208541.1	NT	Homo sapiens V1-vascular vasopressin receptor AVPR1A gene, promoter region and partial cds
8300	20984	34131	0.96	7.0E-31	AF208541.1	NT	Homo sapiens V1-vascular vasopressin receptor AVPR1A gene, promoter region and partial cds

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9166	21836		0.94	7.0E-31	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
12434	24805	31044	2.26	7.0E-31	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
3667	16420		2.66	6.0E-31	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
8053	20747		4.37	6.0E-31	AF055066.1	NT	Homo sapiens MHC class 1 region
8229	20823	34062	0.86	6.0E-31	BE350127.1	EST_HUMAN	ht08g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to cortals MER28.b3
12169	25185		1.96	6.0E-31	BE894488.1	EST_HUMAN	MER29 repetitive element;
187	13000	25640	3.58	5.0E-31	ME0694.1	NT	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
187	13000	25641	3.58	5.0E-31	ME0694.1	NT	Homo sapiens type I DNA topoisomerase gene, exon 8
8344	21037		0.73	5.0E-31	BF056540.1	EST_HUMAN	Homo sapiens type I DNA topoisomerase gene, exon 8
582	13362		6.18	4.0E-31	AJ271736.1	NT	7408f04.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:3443479 3' similar to TR-Q19537 Q19537
							SIMILAR TO POGO ELEMENT, contains L1.1 L1 repetitive element;
							Homo sapiens Xq pseudautosomal region; segment 1/2
1806	14352	27040	0.91	4.0E-31	Q10473	SWISSPROT	POLYPEPTIDE N-ACETYL GALACTOSAMINYLTRANSFERASE (PROTEIN-LUDP
1810	14560		1.57	4.0E-31	AL163280.2	NT	ACETYL GALACTOSAMINYLTRANSFERASE (UDP-GALNAC:POLYPEPTIDE, N-
2792	15497		1.23	4.0E-31	5730038	NT	ACETYL GALACTOSAMINYLTRANSFERASE (GALNAC-T1)
12205	24672		1.86	4.0E-31	AJ230125.1	NT	Homo sapiens chromosome 21 segment HS21C080
12467	24826		1.86	4.0E-31	11430273	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
							Homo sapiens GGT1 gene, exon 1
7239	18824	32989	12.23	3.0E-31	4828853	NT	Homo sapiens KIAA0568 gene product (KIAA0568), mRNA
7393	20072	33151	1.26	3.0E-31	11420329	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8 (18kD, ASH1) (NDUFB8) mRNA
8061	20755		2	3.0E-31	AL163206.2	NT	Homo sapiens hypothetical protein FLJ10842 (FLJ10842), mRNA
9479	22132	35312	3.7	3.0E-31	D14523.1	NT	Homo sapiens chromosome 21 segment HS21C008
10498	23144	36371	0.54	3.0E-31	AA421242.1	EST_HUMAN	Horse mRNA for ferritin L-chain, complete cds
10527	23224	36459	2.04	3.0E-31	P11174	SWISSPROT	zu06d04.1 Soares testis NHT Homo sapiens cDNA clone IMAGE:731047 5'
11101	23771		3.66	3.0E-31	BF035327.1	EST_HUMAN	40S RIBOSOMAL PROTEIN S15 (RIG PROTEIN)
12819	25059		1.66	3.0E-31	AB037763.1	NT	601458531F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:3862086 5'
1910	14847	27358	1.37	2.0E-31	AW838171.1	EST_HUMAN	Homo sapiens mRNA for KIAA1342 protein, partial cds
2211	14838	27677	1.09	2.0E-31	AI393388.1	EST_HUMAN	QV2-LT0051-260300-111-f03 LT0051 Homo sapiens cDNA
2339	15062	27800	1.88	2.0E-31	AL118245.1	EST_HUMAN	ig44g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2111672 3'
							DKFZp781G1513_1 761 (synonym: hemy2) Homo sapiens cDNA clone DKFZp781G1513 5'
							aa88f11.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838413 3' similar to cortals
2442	15161	27898	4.01	2.0E-31	AA458824.1	EST_HUMAN	THR-12 THR repetitive element;

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6193	18001	30624	0.81	2.0E-31	AW444498.1	EST_HUMAN	UI-H-B13-akb-f-09-Q-UJ.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733833 3'
5624	18421	31334	3.57	2.0E-31	BE350127.1	EST_HUMAN	h08g01.x1 NCI_CGAP_Kd13 Homo sapiens cDNA clone IMAGE:3148266 3' similar to contains MER29.B3 MER29 repetitive element ;
8975	21685		2.05	2.0E-31	AA877784.1	EST_HUMAN	nr08f04.s1 NCI_CGAP_Cot10 Homo sapiens cDNA clone IMAGE:1161055 3' similar to TR:Q13537 Q13537
9107	21785	34959	3.84	2.0E-31	7681535	NT	MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE. ;
9806	22457	36681	0.94	2.0E-31	AV710948.1	EST_HUMAN	Homo sapiens B9 protein (B9), mRNA
9806	22457	35682	0.94	2.0E-31	AV710948.1	EST_HUMAN	AV710948 Cu Homo sapiens cDNA clone CuAALB07 5'
9875	22623	35828	2.35	2.0E-31	BE408611.1	EST_HUMAN	AV710948 Cu Homo sapiens cDNA clone CuAALB07 5'
9875	22623	35830	2.35	2.0E-31	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
12144	24632		1.58	2.0E-31	AF148512.1	NT	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
12279	25413		1.75	2.0E-31	AI114527.1	EST_HUMAN	Homo sapiens hexokinase II gene, promoter region
15	12842	25456	11.09	1.0E-31	U93163.1	NT	HA1110 Human fetal liver cDNA library Homo sapiens cDNA
1658	14404	27092	1.35	1.0E-31	O95371	SWISSPROT	Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds
1658	14404	27093	1.35	1.0E-31	O95371	SWISSPROT	OLFACTORY RECEPTOR 2C1
1658	14404	27094	1.35	1.0E-31	O95371	SWISSPROT	OLFACTORY RECEPTOR 2C1
4592	17327	28952	1.15	1.0E-31	AL134376.1	EST_HUMAN	OLFACTORY RECEPTOR 2C1
4592	17327	28953	1.15	1.0E-31	AL134376.1	EST_HUMAN	DKFZp547B235_J1 547 (synonym: hfbf1) Homo sapiens cDNA clone DKFZp547B235 5'
6210	18018	30840	3.79	1.0E-31	AW391678.1	EST_HUMAN	DKFZp547B235_J1 547 (synonym: hfbf1) Homo sapiens cDNA clone DKFZp547B235 5'
6042	18822	31782	2.2	1.0E-31	AF048727.1	NT	MR3-ST0220-151289-028-e08_1 ST0220 Homo sapiens cDNA
7189	19876	32948	1	1.0E-31	AF128145.1	NT	Homo sapiens minisatellite ceb1 repeat region
10136	22784	35895	0.51	1.0E-31	U93163.1	NT	Bos taurus xenobiotic/medium-chain fatty acid:CoA ligase form XL-III mRNA, nuclear mRNA encoding mitochondrial protein, complete cds
10833	23515	36757	2.7	1.0E-31	A1088434.1	EST_HUMAN	Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds
11830	24414	37752	1.48	1.0E-31	U68081.1	NT	qf21h03.x1 NCI_CGAP_Bim25 Homo sapiens cDNA clone IMAGE:1750709 3' similar to TR:Q16595 Q16595 FRATAXIN. ;
6542	19307	32312	2.38	9.0E-32	AV723976.1	EST_HUMAN	Human gametite T-cell receptor beta chain TCRBV17S1A1T, TCRBV231, TCRBV10S1P, TCRBV28S1P, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB rat, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBU1S1, TCRBU1S2>
7492	20164		0.66	9.0E-32	11430822	NT	AV723976 HTB Homo sapiens cDNA clone HTBAAG01 5'
2070	14802	27530	2.48	8.0E-32	A1056770.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ11294 (FLJ11294), mRNA
							oz15a09.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1675384 3'

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6394	18194	30887	0.97	8.0E-32	AW697214.1	EST_HUMAN	RC2-BN0048-200300-016-e04 BN0048 Homo sapiens cDNA
4807	17538	30161	0.98	7.0E-32	P52591	SWISSPROT	NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 (PORE MEMBRANE PROTEIN OF 121 KD) (P145)
12122	24614		8.19	7.0E-32	X17283.1	NT	Human chromosome 22 Immunoglobulin V(K) gene, part with 6' breakpoint between orphion and neighbouring non-amplified region
2735	15442	28180	1.01	8.0E-32	A478104.1	EST_HUMAN	tn34a10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2158984 3' similar to contains MER28.13
7268	18950		1.47	8.0E-32	BE88016.1	EST_HUMAN	MER28 repetitive element;
1011	13771	28431	16.78	5.0E-32	AF116027.1	NT	601611630F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913087 5'
910	13877		1.76	4.0E-32	AL163246.2	NT	Homo sapiens PRO1181 mRNA, complete cds
5148	17887		0.91	4.0E-32	A885593.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C048
7503	20174	33266	2.94	4.0E-32	11432574	NT	ws08h12.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2498847 3' similar to contains MER18.b3
7503	20174	33267	2.94	4.0E-32	11432574	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
8257	20951		1.2	4.0E-32	BE064410.1	EST_HUMAN	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
443	13229	25872	3.7	3.0E-32	Y17283.1	NT	RC4-BT0311-141198-011-r06 BT0311 Homo sapiens cDNA
1437	14184	26870	8.08	3.0E-32	AV791500.1	EST_HUMAN	Homo sapiens FL-1 gene, partial
8284	21981	35135	8.38	3.0E-32	AV758634.1	EST_HUMAN	AV791500 HTF Homo sapiens cDNA clone HTFAK007 5'
8294	21981	35136	8.38	3.0E-32	AV758634.1	EST_HUMAN	AV758634 BM Homo sapiens cDNA clone BMFBBH12 5'
10843	23525	36768	3.57	3.0E-32	AA778021.1	EST_HUMAN	AV758634 BM Homo sapiens cDNA clone BMFBBH12 5'
12146	24634		3.51	3.0E-32	BE278086.1	EST_HUMAN	z95a07.s1 Soares_fetal_liver_spleen_1INFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to contains THR18 THR repetitive element;
12507	17889	30586	2.97	3.0E-32	5174574	NT	601156285F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139701 5'
12507	17889	30587	2.97	3.0E-32	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
12656	24956		2.27	3.0E-32	BE278086.1	EST_HUMAN	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
6158	18935	31902	0.81	2.0E-32	M35418.1	NT	601156285F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139701 5'
6387	19156	32155	5.32	2.0E-32	Z38133.1	NT	Human cell 12-lipoxygenase mRNA, complete cds
6387	19156	32156	5.32	2.0E-32	Z38133.1	NT	H. sapiens mRNA for myosin
8176	20870	34003	2.26	2.0E-32	AA114284.1	EST_HUMAN	H. sapiens mRNA for myosin
8178	20870	34004	2.26	2.0E-32	AA114284.1	EST_HUMAN	zr66c08.r1 Stratiogene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563150 5'
11859	24443	37784	2.06	2.0E-32	T18862.1	EST_HUMAN	zr66c08.r1 Stratiogene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563150 5'
12763	25022	30961	2.42	2.0E-32	AV736449.1	EST_HUMAN	b12056t Testis 1 Homo sapiens cDNA clone b12056
							AV736449 CB Homo sapiens cDNA clone GBFBIA08 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12763	25022	30862	2.42	2.0E-32	AV738449.1	EST_HUMAN	AV738449 CB Homo sapiens cDNA clone C8FBIA08 5'
3090	16855		1.67	1.0E-32	BE743289.1	EST_HUMAN	601573207F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834433 5'
6855	19437	32453	7.02	1.0E-32	11439789	NT	Homo sapiens chromosome 11 open reading frame 9 (C11ORF9), mRNA
8494	21186	34329	8.08	1.0E-32	AA720374.1	EST_HUMAN	hw21g02.s1 NCL_CGAP_GC80 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR13
3474	16230		4.58	9.0E-33	BE327112.1	EST_HUMAN	THIR repetitive element;
6326	19096		4.05	9.0E-33	AF223391.1	NT	hw07c05.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182216 3' similar to TR:O88539 O88539
8687	21379	34523	1.96	9.0E-33	BF347229.1	EST_HUMAN	WW DOMAIN BINDING PROTEIN 11.;
10701	23392		5.22	9.0E-33	AL163280.2	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
58	12887	25517	3.14	7.0E-33	5031736	NT	602021164F1 NCL_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4156870 5'
58	12887	25518	3.14	7.0E-33	5031736	NT	Homo sapiens chromosome 21-segment HS21C080
2158	14888	27622	2.29	7.0E-33	AI560115.1	EST_HUMAN	Homo sapiens short-chain alcohol dehydrogenase family member (HIEP27) mRNA
2655	16365		6.45	7.0E-33	AV730056.1	EST_HUMAN	Homo sapiens short-chain alcohol dehydrogenase family member (HIEP27) mRNA
3236	15938		9.3	7.0E-33	AW971307.1	EST_HUMAN	hw12b09.x1 NCL_CGAP_U12 Homo sapiens cDNA clone IMAGE:2178809 3' similar to contains OFR.11 OFR
8845	21537		1.56	7.0E-33	X54890.1	NT	repetitive element;
10732	23419	36660	2.41	7.0E-33	BF347229.1	EST_HUMAN	AV730056 HTF Homo sapiens cDNA clone HTFAVE06 5'
11213	23676	37162	1.93	7.0E-33	AW971568.1	EST_HUMAN	EST383396 MAGI resequences, MAGL Homo sapiens cDNA
12127	24619	31090	4.34	7.0E-33	AA601416.1	EST_HUMAN	Human hLRP mRNA for leukocyte common antigen-related peptide (protein-tyrosine phosphate) (EC 3.1.3.48)
3720	16473		0.94	6.0E-33	AL163285.2	NT	602021164F1 NCL_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4156870 5'
5976	18758	31720	0.96	6.0E-33	F30631.1	EST_HUMAN	EST383397 MAGI resequences, MAGL Homo sapiens cDNA
5976	18758	31721	0.98	6.0E-33	F30631.1	EST_HUMAN	not16h01.s1 NCL_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100881 3' similar to contains L1.L1 L1
8478	21170	34315	9.33	6.0E-33	JO4038.1	NT	repetitive element;
8603	21295	34438	3.09	6.0E-33	11429198	NT	Homo sapiens chromosome 21 segment HS21C085
9910	22559	35754	1.12	6.0E-33	6755609	NT	HSPD21201 HM3 Homo sapiens cDNA clone s4000107H08
9910	22559	35755	1.12	6.0E-33	6755609	NT	HSPD21201 HM3 Homo sapiens cDNA clone s4000107H08
1770	14512		1.46	5.0E-33	BF373515.1	EST_HUMAN	Human glyceraldehyde-3-phosphate dehydrogenase (GAPDH) gene, complete cds
1874	14612		1.19	5.0E-33	1141894	NT	Homo sapiens similar to RAD23 (S. cerevisiae) homolog B (H. sapiens) (LOC83277), mRNA
1891	14628	27337	1.43	5.0E-33	4507208	NT	Mus musculus SRY-box containing gene 6 (Sox6), mRNA
1891	14628	27338	1.43	5.0E-33	4507208	NT	Mus musculus SRY-box containing gene 6 (Sox6), mRNA
1891	14628	27337	1.43	5.0E-33	4507208	NT	QV1-FT0169-100700-271-602 F10169 Homo sapiens cDNA
1891	14628	27337	1.43	5.0E-33	4507208	NT	Homo sapiens solute carrier family 5 (choline transporter), member 7 (SLC5A7), mRNA
1891	14628	27337	1.43	5.0E-33	4507208	NT	Homo sapiens spermidine synthase (SRM) mRNA
1891	14628	27337	1.43	5.0E-33	4507208	NT	Homo sapiens spermidine synthase (SRM) mRNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2270	14998		1.29	5.0E-33	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
10148	22798	36010	0.8	5.0E-33	AW264678.1	EST_HUMAN	xp33f11.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2752461 3'
10148	22798	36011	0.8	5.0E-33	AW264679.1	EST_HUMAN	xp33f11.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2752461 3'
1106	13863		2.16	4.0E-33	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
2121	14852	27581	1.84	4.0E-33	4739987	NT	Homo sapiens RAB1, member RAS oncogene family (RAB1) mRNA
2419	15140		2.02	4.0E-33	AA628821.1	EST_HUMAN	ab51b11.r1 Stratagene lung carcinoma 837218 Homo sapiens cDNA clone IMAGE:844317 5' similar to contains Abi repetitive element; contains MER28.b2 MER28 repetitive element ;
2547	15282	27888	4.15	4.0E-33	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4450	17188	28811	2.15	4.0E-33	AW263349.1	EST_HUMAN	UIH-B12-ah-c-03-Q-U1.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727149 3'
5318	18122	30779	24.73	4.0E-33	AA03053.1	EST_HUMAN	z71a08.r1 Stratagene colon (#837204) Homo sapiens cDNA clone IMAGE:510038 5' similar to gb-X12871_ma1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
6289	19072	32057	0.87	4.0E-33	8393894	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
6289	19072	32058	0.87	4.0E-33	8393894	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
1067	13825		5.5	3.0E-33	BE350127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_Kdf13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER28.b3
1068	13825		3.89	3.0E-33	BE350127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_Kdf13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER28.b3
2451	15595		0.92	3.0E-33	AV647851.1	EST_HUMAN	AV647851 GLC Homo sapiens cDNA clone GLOBCF09 3'
10338	22985	36203	1.04	3.0E-33	AA881610.1	EST_HUMAN	ak32b12.s1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1407647 3' similar to TR-Q13579
102	12843		3.21	2.0E-33	A1180189.1	EST_HUMAN	Q13579 MARINER TRANSPOSASE ;
4385	17122		5.39	2.0E-33	BE165038.1	EST_HUMAN	qb87g03.x1 Scores_fetal_liver_NbrH19W Homo sapiens cDNA clone IMAGE:1705204 3' similar to contains OFR.t1 OFR repetitive element ;
4825	17653	30265	28.91	2.0E-33	AA626683.1	EST_HUMAN	MR0-HT0405-160300-202-d08 HT0405 Homo sapiens cDNA
5033	17753	30365	2.75	2.0E-33	11421332	NT	ab51g11.r1 Stratagene lung carcinoma 837218 Homo sapiens cDNA clone IMAGE:844388 5' similar to gb-X00734_cds1 TUBULIN BETA-5 CHAIN (HUMAN);
5033	17753	30366	2.75	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
6329	19099	32087	1.81	2.0E-33	AI277492.1	EST_HUMAN	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
8988	21698		2.18	2.0E-33	AID52258.1	EST_HUMAN	q98401.x1 Scores_NbrHMPu_S1 Homo sapiens cDNA clone IMAGE:1880161 3'
10513	23159	36384	1.48	2.0E-33	11421332	NT	oz21d03.x1 Scores_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1675673 3' similar to gb-M29538 TRANSLATIONAL INITIATION FACTOR 2 BETA SUBUNIT (HUMAN);
10513	23159	36385	1.48	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
11046	23716	36985	1.28	2.0E-33	AA453647.1	EST_HUMAN	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
							z44805.s1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:795489 3' similar to TR-G1283081
							G1283081 MARINER TRANSPOSASE ;

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8	12835		1.16	1.0E-33	AF003528.1	NT	Homo sapiens X-linked arylidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
5156	17873	30485	2.46	1.0E-33	4502558	NT	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA
5501	18289	31198	0.69	1.0E-33	AF189420.1	NT	Homo sapiens F-box protein FBL4 (FBL4) mRNA, complete cds
7307	18990	33067	1.04	1.0E-33	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
9920	25432		0.84	1.0E-33	U60822.1	NT	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
11282	23863	37251	1.83	1.0E-33	AW898818.1	EST_HUMAN	QV3-BN0047-230200-102-503 BN0047 Homo sapiens cDNA
11663	24259	37581	3.32	1.0E-33	U60822.1	NT	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
12407	24790		2.21	1.0E-33	AI927191.1	EST_HUMAN	wc88c08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462410 3'
12570	12835		4.07	1.0E-33	AF003528.1	NT	Homo sapiens X-linked arylidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
12602	24914	31006	1.41	1.0E-33	AV727809.1	EST_HUMAN	AV727809 HTC Homo sapiens cDNA clone HTCCNC12 5'
12780	25034		1.61	9.0E-34	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region: segment 1/2
2168	14897	27631	0.86	8.0E-34	8922761	NT	Homo sapiens hypothetical protein FLJ10900 (FLJ10900), mRNA
7699	20363	33498	0.66	8.0E-34	BE069882.1	EST_HUMAN	MIR4-BT0359-200100-001-103 BT0359 Homo sapiens cDNA
1426	14173	26958	2.27	7.0E-34	T70845.1	EST_HUMAN	Yd15e05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108320 5'
9000	14173	26958	0.56	7.0E-34	T70845.1	EST_HUMAN	Yd15e05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108320 5'
12191	24682		3.05	7.0E-34	H12888.1	EST_HUMAN	Y14c10.r1 Soares placenta Nk2IP Homo sapiens cDNA clone IMAGE:148722 5'
458	13243	25894	2.3	6.0E-34	U10991.1	NT	Human G2 protein mRNA, partial cds
458	13243	25896	2.3	6.0E-34	U10991.1	NT	Human G2 protein mRNA, partial cds
12011	24544	31107	2.13	6.0E-34	U03886.1	NT	Mus musculus DAB/2J hair-specific (hac1-1) gene
1873	14611		2.9	5.0E-34	7706500	NT	Homo sapiens Npw38-binding protein NpwBP (LOC51729), mRNA
5002	17725	30328	3.61	5.0E-34	U30983.1	NT	Human splicing factor SRP55-1 (SRP55) mRNA, complete cds
8765	21457	34607	1.37	5.0E-34	AF078778.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10650	23246	36482	2.24	5.0E-34	AB037856.1	NT	Homo sapiens mRNA for KIAA1435 protein, partial cds
11219	23862		1.79	6.0E-34	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C009
1991	14727	27449	1.64	4.0E-34	AI804867.1	EST_HUMAN	h94c08.x1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:2249184 3'
5770	18591	31498	0.64	4.0E-34	AA881773.1	EST_HUMAN	sk35c01.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1407938 3'
8936	21627	34769	1.26	4.0E-34	BF209778.1	EST_HUMAN	601874950F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4102213 5'
6138	18916	31886	0.78	3.0E-34	M37277.1	NT	Human Ig germline H-chain D-region genes, partial cds
11100	23770		3.14	3.0E-34	BF035327.1	EST_HUMAN	601458331F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
8850	21541	34887	1.16	2.0E-34	AI678101.1	EST_HUMAN	wc35p08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170 3' similar to contains MER29.12 MER29 repetitive element;

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8850	21541	34688	1.16	2.0E-34	AI078101.1	EST_HUMAN	wd35g08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170 3' similar to contains
11113	23783	37057	1.34	2.0E-34	P51805	SWISSPROT	MER29.12 MER29 repetitive element ;
11113	23783	37058	1.34	2.0E-34	P51805	SWISSPROT	PLEXIN 4 PRECURSOR (TRANSMEMBRANE PROTEIN SEX)
1494	14241	26928	6.63	1.0E-34	P12236	SWISSPROT	PLEXIN 4 PRECURSOR (TRANSMEMBRANE PROTEIN SEX)
							ADP-ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE
							NUCLEOTIDE TRANSLOCATOR 3) (ANT 3)
							Homo sapiens X-linked arylidic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat
3683	16416	29055	1.32	1.0E-34	AF003528.1	NT	regions
4051	16796	29425	0.97	1.0E-34	AY009397.1	NT	Homo sapiens WNT3 precursor (WNT3) mRNA, complete cds
4051	16796	29426	0.97	1.0E-34	AY008397.1	NT	Homo sapiens WNT3 precursor (WNT3) mRNA, complete cds
4446	17182		3.44	1.0E-34	BE071414.1	EST_HUMAN	RC2-BT0506-240400-016-h08 BT0506 Homo sapiens cDNA
6047	18827	31788	2.05	1.0E-34	BE874052.1	EST_HUMAN	601484430F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3886899 5'
6047	18827	31789	2.05	1.0E-34	BE874052.1	EST_HUMAN	601484430F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3886899 5'
9225	21904	35076	0.46	1.0E-34	P23266	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN F5
9566	22249	35434	7.1	1.0E-34	AL036635.1	EST_HUMAN	DKFZp564A1563.1 584 (synonym: hfr2) Homo sapiens cDNA clone DKFZp564A1563 5'
11138	23805	37083	1.39	1.0E-34	BE781790.1	EST_HUMAN	601470592F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873478 5'
11138	23805	37084	1.39	1.0E-34	BE781790.1	EST_HUMAN	601470592F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873478 5'
11153	23820	37100	1.82	1.0E-34	11439599	NT	Homo sapiens nucleobindin 2 (NUCB2), mRNA
12372	25350		1.65	1.0E-34	AA807097.1	EST_HUMAN	cc31c11.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1351316 3' similar to gb:U68203
12593	24949		4.22	1.0E-34	AL183210.2	NT	TYROSINE-PROTEIN KINASE RECEPTOR FLT4 PRECURSOR (HUMAN);
3638	16389	29029	1.2	9.0E-35	AW663302.1	EST_HUMAN	hh77b08.y1 NCL_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2968787 5'
218	13026		7.71	8.0E-35	6031180	NT	Homo sapiens prohibitin (PHB) mRNA
1730	14472	27171	3.43	8.0E-35	BF589937.1	EST_HUMAN	nas33a08.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:O75912
1730	14472						O75912 DIACYLGLYCEROL KINASE IOTA ;
1730	14472	27172	3.43	8.0E-35	BF589937.1	EST_HUMAN	nas33a08.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:O75912
4814	17545	30170	2.69	8.0E-35	BF183195.1	EST_HUMAN	O75912 DIACYLGLYCEROL KINASE IOTA ;
10588	23283	36522	2.42	8.0E-35	BE378480.1	EST_HUMAN	601809388F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040324 5'
12119	24611		3.95	8.0E-35	BF589282.1	EST_HUMAN	601238468F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:3608513 5'
6393	19182	32163	2.05	7.0E-35	11425417	NT	602184624T1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:4300680 3'
1391	14138	26815	1.83	6.0E-35	AA767115.1	EST_HUMAN	Homo sapiens phosphatidylinositol glycan, class I (PIGL), mRNA
1960	14696	27409	2.09	6.0E-35	6005975	NT	sh53h03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1308397 3'
4030	16775	29406	0.84	6.0E-35	AW297191.1	EST_HUMAN	Homo sapiens zinc finger protein 208 (ZNF208), mRNA
							UH-HBW0-qtd-08-0-U1.s1 NCL_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2731433 3'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7788	20493	33615	3.84	6.0E-35	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
8610	21302	34445	0.93	6.0E-35	X94232.1	NT	H. sapiens mRNA for novel T-cell activation protein
8610	21302	34446	0.93	6.0E-35	X94232.1	NT	H. sapiens mRNA for novel T-cell activation protein
9565	22218	35403	0.86	6.0E-35	AB002364.1	NT	Human mRNA for KIAA0368 gene, partial cds
9803	22454	35656	3.17	6.0E-35	AB037786.1	NT	Homo sapiens mRNA for KIAA1365 protein, partial cds
1704	14447	27146	1.38	5.0E-35	X63392.1	NT	H. sapiens immunoglobulin kappa light chain variable region L14
2787	15492	28232	1.07	5.0E-35	AB007866.2	NT	Homo sapiens mRNA for KIAA0408 protein, partial cds
3008	15776	28424	1.7	5.0E-35	6912639	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA
4376	17113	28746	1.7	5.0E-35	AF023288.1	NT	Homo sapiens cdk2 kinase (CLK2), prolin1, coter1, glucocorticoidase (GBA), and metadex genes, complete cds; metadex pseudogene and glucocorticoidase pseudogenes; and thrombospondin3 (THBS3) gene, partial cds
8084	20778		3.99	5.0E-35	BE890982.1	EST_HUMAN	601431984F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917229 5'
8109	20903	33936	2.35	5.0E-35	AI208765.1	EST_HUMAN	qg38c05.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1837448 3' similar to SW:Y249_HUMAN Q82539 HYPOTHETICAL PROTEIN KIAA0249. ;
8109	20803	33937	2.35	5.0E-35	AI208765.1	EST_HUMAN	qg38c05.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1837448 3' similar to SW:Y249_HUMAN Q82539 HYPOTHETICAL PROTEIN KIAA0249. ;
11130	23798		2.46	5.0E-35	AA001786.1	EST_HUMAN	zh84f12.f1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:428015 5'
1413	14181	28945	16.86	4.0E-35	BE257907.1	EST_HUMAN	601109719F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350405 5'
1811	14551	27265	4.87	4.0E-35	H91193.1	EST_HUMAN	yJ08a07.f1 Soares_fetal_liver_spleen_INFLS Homo sapiens cDNA clone IMAGE:241238 5' similar to contains PTR5 repetitive element ;
4753	17485		0.72	4.0E-35	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
7108	19788		1.81	4.0E-35	BE350127.1	EST_HUMAN	h109g01.x1 NCL_CGAP_Kd13 Homo sapiens cDNA clone IMAGE:3146266 3' similar to contains MER29.b3
8416	21109	34248	8.88	4.0E-35	ALD46598.1	EST_HUMAN	MER29 repetitive element ;
11726	24322	37846	1.38	4.0E-35	AW303317.1	EST_HUMAN	DKFZp434L148_j1 434 (synonym: h18a3) Homo sapiens cDNA clone DKFZp434L148 5'
1573	14320	27006	7.78	3.0E-35	BE268182.1	EST_HUMAN	xy1703.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813405 3' similar to contains Alu repetitive element; contains MER18.12 MER19 repetitive element ;
2330	15055		1.5	3.0E-35	AF224492.1	NT	601125260F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345063 5'
5256	18062	30690	31.47	3.0E-35	BF433100.1	EST_HUMAN	Homo sapiens phospholipid scramblase 1 gene, complete cds
5256	18062	30691	31.47	3.0E-35	BF433100.1	EST_HUMAN	7n25a09.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3565361 3' similar to TR:Q9QZH7
5256	18062	30691	31.47	3.0E-35	BF433100.1	EST_HUMAN	Q9QZH7 F-BOX PROTEIN FBL2. ;
5256	18062	30691	31.47	3.0E-35	BF433100.1	EST_HUMAN	7n25a09.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3565361 3' similar to TR:Q9QZH7
5256	18062	30691	31.47	3.0E-35	BF433100.1	EST_HUMAN	Q9QZH7 F-BOX PROTEIN FBL2. ;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6388	22050		1.42	3.0E-35	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10074	22722	36639	1.12	3.0E-35	AW003063.1	EST_HUMAN	wr03a05.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2480432 3' similar to SW:POL1_HUMAN P10288 RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ; K6832F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6832 5' similar to REPETITIVE ELEMENT
108	15535	25587	1.88	2.0E-35	N88985.1	EST_HUMAN	REPETITIVE ELEMENT
1165	13919	26582	1.55	2.0E-35	T11909.1	EST_HUMAN	A971F Heart Homo sapiens cDNA clone A971
2215	14943	27683	5.73	2.0E-35	AB018413.1	NT	Homo sapiens mRNA for Gab2, complete cds
3306	16066	28714	1.12	2.0E-35	6812459	NT	Homo sapiens Grb2-associated binder 2 (KJAA0571), mRNA
3308	16066	28715	1.12	2.0E-35	6812459	NT	Homo sapiens Grb2-associated binder 2 (KJAA0571), mRNA
3545	16300		0.94	2.0E-35	AB020702.1	NT	Homo sapiens mRNA for KIAA0895 protein, partial cds
3890	16840	29279	0.78	2.0E-35	BE247575.1	EST_HUMAN	TCBAP2E4328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TC8A Homo sapiens cDNA clone TC8AP4328
3890	16840	29280	0.78	2.0E-35	BE247575.1	EST_HUMAN	TCBAP2E4328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TC8A Homo sapiens cDNA clone TC8AP4328
4821	17356		2.57	2.0E-35	H49239.1	EST_HUMAN	yq18a12.J1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:274079 5'
6496	18294	31182	2.7	2.0E-35	BF332417.1	EST_HUMAN	QV0-BT0701-210400-199-b04 BT0701 Homo sapiens cDNA
7004	19898	32749	0.95	2.0E-35	BE832636.1	EST_HUMAN	CM2-MT0125-280700-297-G02 MT0125 Homo sapiens cDNA
7004	19898	32750	0.95	2.0E-35	BE832636.1	EST_HUMAN	CM2-MT0125-280700-297-G02 MT0125 Homo sapiens cDNA
7776	20471	33593	0.45	2.0E-35	AV723718.1	EST_HUMAN	AV723718 HTB Homo sapiens cDNA clone HTBAYA10 5'
7776	20471	33594	0.45	2.0E-35	AV723718.1	EST_HUMAN	AV723718 HTB Homo sapiens cDNA clone HTBAYA10 5'
10697	23398	36626	2.24	2.0E-35	X59417.1	NT	H.sapiens PROS-27 mRNA
11817	18294	31182	1.28	2.0E-35	BF332417.1	EST_HUMAN	QV0-BT0701-210400-199-b04 BT0701 Homo sapiens cDNA
11889	16066	28714	1.72	2.0E-35	6812459	NT	Homo sapiens Grb2-associated binder 2 (KJAA0571), mRNA
11889	16066	28715	1.72	2.0E-35	6812459	NT	Homo sapiens Grb2-associated binder 2 (KJAA0571), mRNA
12062	24577	31120	1.36	2.0E-35	BE904978.1	EST_HUMAN	G01496774F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898699 5'
12062	24577	31121	1.36	2.0E-35	BE904978.1	EST_HUMAN	G01496774F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898699 5'
12572	24900		5.96	2.0E-35	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
12689	15635	26567	1.56	2.0E-35	N88985.1	EST_HUMAN	K6832F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6832 5' similar to REPETITIVE ELEMENT
45	12874	25498	6.81	1.0E-35	AA631949.1	EST_HUMAN	finfric16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
45	12874	25497	6.81	1.0E-35	AA631949.1	EST_HUMAN	finfric16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
735	13509	26166	19.5	1.0E-35	AW389473.1	EST_HUMAN	IL2-ST0162-131099-008-d12 ST0162 Homo sapiens cDNA

Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
735	13609	28186	19.5	1.0E-35	AW389473.1	EST_HUMAN	IL2-ST0162-131089-006-412 ST0162 Homo sapiens cDNA
889	13658		1.3	1.0E-35	T87947.1	EST_HUMAN	y83a01.1 Sources fetal liver spleen 1NFLS Homo sapiens cDNA IMAGE:115752 5' similar to
2544	15258	27098	1.88	1.0E-35	7705984	NT	SP-A44282 A44282 RETROVIRUS-RELATED POLYPROTEIN - HUMAN ;
2770	15475	28217	1.09	1.0E-35	BE350127.1	EST_HUMAN	Homo sapiens hypothetical protein (LOC51233), mRNA
							h08g01.x1 NCL_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
							MER29 repetitive element ;
							h08g01.x1 NCL_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
2770	15475	28218	1.09	1.0E-35	BE350127.1	EST_HUMAN	MER29 repetitive element ;
3140	15804	28549	1.81	1.0E-35	6006030	NT	Homo sapiens transcription elongation factor B (SIII), polypeptide 1-like (TCEB1L) mRNA
3161	15824	28570	3.3	1.0E-35	AV650422.1	EST_HUMAN	AV650422 GLC Homo sapiens cDNA clone GLCCEP08 3'
3161	15824	28571	3.3	1.0E-35	AV650422.1	EST_HUMAN	AV650422 GLC Homo sapiens cDNA clone GLCCEP08 3'
4388	17125	28756	3.93	1.0E-35	7956905	NT	Mus musculus activin receptor interacting protein 1 (Arip1-pending), mRNA
4388	17125	28757	3.93	1.0E-35	7956905	NT	Mus musculus activin receptor interacting protein 1 (Arip1-pending), mRNA
5423	18222	30634	1.41	1.0E-35	11526238	NT	Homo sapiens chromatin assembly factor 1, subunit B (p60) (CHAF1B), mRNA
7363	20063	33141	0.88	1.0E-35	AB033105.1	NT	Homo sapiens mRNA for KIAA1279 protein, partial cds
7541	20211	33311	1.18	1.0E-35	11418002	NT	Homo sapiens KIAA0645 gene product (KIAA0645), mRNA
9442	25125	35297	2.16	1.0E-35	AU158595.1	EST_HUMAN	AU158595 PLACE3 Homo sapiens cDNA clone PLACE3000382 3'
9442	25125	35298	2.16	1.0E-35	AU158595.1	EST_HUMAN	AU158595 PLACE3 Homo sapiens cDNA clone PLACE3000382 3'
							naa06406.x1 NCL_CGAP_P28 Homo sapiens cDNA clone IMAGE:3254051 3' similar to TR:O31341
10477	23123	36352	0.7	1.0E-35	BF589594.1	EST_HUMAN	O31341 BETA-GALACTOSIDASE ;
10477	23123	36353	0.7	1.0E-35	BF589594.1	EST_HUMAN	O31341 BETA-GALACTOSIDASE ;
11758	24349	37680	1.46	1.0E-35	AB028980.1	NT	Homo sapiens mRNA for KIAA1057 protein, partial cds
11758	24349	37681	1.46	1.0E-35	AB028980.1	NT	Homo sapiens mRNA for KIAA1057 protein, partial cds
11788	24359		1.91	1.0E-35	A1525119.1	EST_HUMAN	prommer-7.D01.7 bcrumor Homo sapiens cDNA 5'
11917	25313		1.37	1.0E-35	11418274	NT	Homo sapiens fibulin 1 (FBLN1), mRNA
12121	24613		1.63	1.0E-35	11418110	NT	Homo sapiens casein kinase 1, epsilon (CSNK1E), mRNA
12471	24837		2.13	1.0E-35	BE782832.1	EST_HUMAN	601584833F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3838985 5'
9129	21817	34983	0.56	8.0E-36	AA348480.1	EST_HUMAN	EST54938 Hippocampus II Homo sapiens cDNA 5' and similar to similar to endogenous retrovirus 9, 5' LTR
2931	15687	26344	1.1	7.0E-36	AW857679.1	EST_HUMAN	CM1-CT0315-091299-063-d07 CT0315 Homo sapiens cDNA
3116	15981		3.84	7.0E-36	4557498	NT	Homo sapiens C-terminal binding protein 2 (CTBP2) mRNA
7554	20224	33327	5.92	7.0E-36	U06872.1	NT	Human carcinoembryonic antigen gene family member 12 (CGM12) gene, exons L and LN
7554	20224	33328	5.92	7.0E-36	U06872.1	NT	Human carcinoembryonic antigen gene family member 12 (CGM12) gene, exons L and LN

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1008	14734	27456	2	6.0E-36	7706622	NT	Homo sapiens ninjurin 2 (NINJ2), mRNA
2418	15139		6.58	6.0E-36	AB055346.1	NT	Homo sapiens TOL6 gene, exon 12
3630	16383	28023	0.71	6.0E-36	BF515101.1	EST_HUMAN	UHH-BW1-ant-c-12-Q-UJ.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083542 3'
5248	18054	30682	3.54	6.0E-36	AI435169.1	EST_HUMAN	th831008.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2128186 3' similar to gb:M111949 PANCREATIC SECRETORY TRYPSIN INHIBITOR PRECURSOR (HUMAN);
7009	18701	32756	3.57	6.0E-36	AW780143.1	EST_HUMAN	hcd06102.x1 NCI_CGAP_Cot14 Homo sapiens cDNA clone IMAGE:3036627 3' similar to SW:IMA2_HUMAN
8660	21242	34365	2.53	6.0E-36	AF208161.1	NT	P52282 IMPORTIN ALPHA-2 SUBUNIT;
10125	22773		0.51	6.0E-36	C16927.1	EST_HUMAN	Homo sapiens synovial precursor, mRNA, complete cds
11536	24136	37443	3.11	6.0E-36	A380499.1	EST_HUMAN	C16927 Clontech human aorta polyA+ mRNA (#8572) Homo sapiens cDNA clone GEN-535C11 5'
134	12949	25562	10.74	5.0E-36	AJ271735.1	NT	th85c09.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2107024 3' similar to contains MIER9.b2
2755	15460	28202	5.75	5.0E-36	BE398436.1	EST_HUMAN	MER9 repetitive element;
3598	16352	28991	1.45	5.0E-36	AL163208.2	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
4736	17468	30104	2.15	5.0E-36	5729729	NT	601285667F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607289 5'
4736	17468	30105	2.15	5.0E-36	5729729	NT	Homo sapiens chromosome 21 segment HS21C009
7686	20350	33464	0.61	5.0E-36	5729729	NT	Homo sapiens API5-like 1 (API5L.1), mRNA
11887	12949	25592	3.63	5.0E-36	AJ271735.1	NT	Homo sapiens API5-like 1 (API5L.1), mRNA
12168	24650	31103	3.45	5.0E-36	11417862	NT	Homo sapiens N-ethylmaleimide-sensitive factor (NSF), mRNA
1203	13955	26619	1.69	4.0E-36	BE010038.1	EST_HUMAN	Homo sapiens Xq pseudautosomal region, segment 1/2
1423	14170	26856	1.03	4.0E-36	P10266	SWISSPROT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1640	14386	27074	1.61	4.0E-36	BE382574.1	EST_HUMAN	RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE];
2218	14947		2.13	4.0E-36	AW247772.1	EST_HUMAN	ENDONUCLEASE
3349	16108	28763	0.82	4.0E-36	BE399298.1	EST_HUMAN	601286574F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628388 5'
3349	16108	28764	0.82	4.0E-36	BE399298.1	EST_HUMAN	2820020 Sprime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2820020 5'
6628	18426		0.84	4.0E-36	R64023.1	EST_HUMAN	601282286F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604168 5'
5964	18748	31707	2.93	4.0E-36	11497041	NT	601282286F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604168 5'
7553	20223	33328	1.63	4.0E-36	M33320.1	NT	y19705.11 Soares placenta Nb2-IP Homo sapiens cDNA clone IMAGE:139713 5'
8463	21146	34285	1.62	4.0E-36	D87675.1	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), transcript variant 3, mRNA
8453	21145	34286	1.62	4.0E-36	D87675.1	NT	Human platelet Glycoprotein IIb (GP1Ib) gene, exons 2-29
10909	23589	36835	2.84	4.0E-36	AA400370.1	EST_HUMAN	Homo sapiens DNA for amyloid precursor protein, complete cds
12183	24655		2.09	4.0E-36	11420518	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
1227	25169		7.3	4.0E-36	AV753629.1	EST_HUMAN	zu89c10.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743250 5'
							Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
							AV753629 TP Homo sapiens cDNA clone TPCABH01 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12798	25047		1.44	4.0E-36	D25217.2	NT	Homo sapiens mRNA for KIAA0027 protein, partial cds
680	13455	26100	2.58	3.0E-36	AF099810.1	NT	Homo sapiens neuron III-alpha gene, partial cds
1484	14231	26617	1.32	3.0E-36	AF110238.1	NT	Homo sapiens calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase (PDE1A) gene, partial cds
1484	14231	26618	1.32	3.0E-36	AF110239.1	NT	Homo sapiens calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase (PDE1A) gene, partial cds
2297	15022	27757	1.21	3.0E-36	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
4467	17203	28829	5.88	3.0E-36	10181139	NT	Mus musculus junctophilin 1 (Jp1-pending), mRNA
11050	23720	36891	1.59	3.0E-36	BF035327.1	EST_HUMAN	601468531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3662088 5'
3167	15630	28579	2.38	2.0E-36	BE259267.1	EST_HUMAN	601108343F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3342708 5'
4904	17631	30246	6.45	2.0E-36	AW880376.1	EST_HUMAN	QV0-O10030-240300-174-H04 OT0030 Homo sapiens cDNA
5398	18198	30892	3.1	2.0E-36	AF267747.1	NT	Mus musculus p47-phox gene, complete cds
6768	18550	31471	3.95	2.0E-36	T08756.1	EST_HUMAN	EST06848 Infant Brain, Bonto Soares Homo sapiens cDNA clone HIBB128 5' end
6481	18248	32248	12.22	2.0E-36	T66626.1	EST_HUMAN	yc44607.r1 Stratagene liver (#937224) Homo sapiens cDNA clone IMAGE:83508 5'
9288	21955	35126	1.07	2.0E-36	BF512794.1	EST_HUMAN	UHH-BW1-arnu-a-11-0-ULs1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071132 3'
9449	21999	35172	0.79	2.0E-36		NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
9449	21999	35173	0.79	2.0E-36	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
865	13634	26304	1.81	1.0E-36	BE408310.1	EST_HUMAN	601300638F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
2141	14871	27603	1	1.0E-36	BE146523.1	EST_HUMAN	RC1-HT0217-131189-021-H07 HT0217 Homo sapiens cDNA
2141	14871	27604	1	1.0E-36	BE146523.1	EST_HUMAN	RC1-HT0217-131189-021-H07 HT0217 Homo sapiens cDNA
2199	14928	27684	1.36	1.0E-36	BF079791.1	EST_HUMAN	602136469F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4272888 5'
3339	16099		1.16	1.0E-36	AF156962.1	NT	Homo sapiens human endogenous retrovirus W prov8-19 protease (pro) gene, partial cds
5810	18599	31627	1.29	1.0E-36	4827064	NT	Homo sapiens zinc finger protein 147 (estrogen-responsive finger protein) (ZNF147) mRNA
6090	18968		4.19	1.0E-36	A867714.1	EST_HUMAN	w637c12.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2307862 3' similar to contains Alu repetitive element
6296	19069	32052	1.21	1.0E-36	R25012.1	EST_HUMAN	yg36g10.r1 Scores Infant brain 1N1B Homo sapiens cDNA clone IMAGE:34529 5' similar to SP:CAHP_HUMAN P35219 CARBONIC ANHYDRASE-RELATED PROTEIN ;
6296	19069	32053	1.21	1.0E-36	R25012.1	EST_HUMAN	yg36g10.r1 Scores Infant brain 1N1B Homo sapiens cDNA clone IMAGE:34529 5' similar to SP:CAHP_HUMAN P35219 CARBONIC ANHYDRASE-RELATED PROTEIN ;
6582	19345	32359	0.73	1.0E-36	AL120542.1	EST_HUMAN	DKFZb761A229.r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZb761A229 5'
7326	20009	33087	0.85	1.0E-36	11426108	NT	Homo sapiens a disintegrin and metalloproteinase domain 11 (ADAM11), mRNA
7326	20009	33088	0.85	1.0E-36	11426108	NT	Homo sapiens a disintegrin and metalloproteinase domain 11 (ADAM11), mRNA
7660	20555	33679	5.13	1.0E-36	AA148034.1	EST_HUMAN	zo51a12.r1 Stratagene endothelial cell 937223 Homo sapiens cDNA clone IMAGE:590398 5'
7660	20555	33680	5.13	1.0E-36	AA148034.1	EST_HUMAN	zo51a12.r1 Stratagene endothelial cell 937223 Homo sapiens cDNA clone IMAGE:590398 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7952	20647	33770	1.34	1.0E-36	AA420467.1	EST_HUMAN	nc80e08.l1 NCL_CGAP_P1 Homo sapiens cDNA clone IMAGE:745670
7952	20647	33771	1.34	1.0E-36	AA420467.1	EST_HUMAN	nc80e08.l1 NCL_CGAP_P1 Homo sapiens cDNA clone IMAGE:745670
8079	20773	33902	0.61	1.0E-36	AU141688.1	EST_HUMAN	AU141688 THYRO1 Homo sapiens cDNA clone THYRO1001033 5'
8079	20773	33903	0.61	1.0E-36	AU141688.1	EST_HUMAN	AU141688 THYRO1 Homo sapiens cDNA clone THYRO1001033 5'
8927	21618	34762	2.71	1.0E-36	AW103658.1	EST_HUMAN	xe82b07.x1 NCL_CGAP_Bm35 Homo sapiens cDNA clone IMAGE:2614357 3'
10014	22662	35878	3.88	1.0E-36	BF364168.1	EST_HUMAN	QV3-NN1023-010600-199-h01 NN1023 Homo sapiens cDNA
10226	22874	36086	0.56	1.0E-36	AW855868.1	EST_HUMAN	RC3-CT0278-040500-017-a10 GT0279 Homo sapiens cDNA
10228	22874	36087	0.56	1.0E-36	AW855868.1	EST_HUMAN	RC3-CT0278-040500-017-a10 CT0279 Homo sapiens cDNA
10867	23547	36795	3.3	1.0E-36	AW897638.1	EST_HUMAN	CM3-NN0061-140400-147-h12 NN0061 Homo sapiens cDNA
11354	24044	37347	4.17	1.0E-36	AW504143.1	EST_HUMAN	UIHF-BNO-ala-c-03-Q-JL1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079277 5'
11393	23999	37302	1.45	1.0E-36	A1905636.1	EST_HUMAN	RC-BT091-210198-110 BT091 Homo sapiens cDNA
11393	23999	37303	1.45	1.0E-36	A1905636.1	EST_HUMAN	RC-BT091-210198-110 BT091 Homo sapiens cDNA
12060	24576		3.81	1.0E-36	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12501	24855		3.03	1.0E-36	AL163213.2	NT	Homo sapiens chromosome 21 segment HS21C013
12747	25011		3.28	1.0E-36	AF202723.1	NT	Homo sapiens Sed1 ura-84 domain protein 2 (SUN2) mRNA, partial cds
7281	18866	33042	2.12	9.0E-37	AW009277.1	EST_HUMAN	ws80b07.x1 NCL_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2504245 3'
7281	18865	33043	2.12	9.0E-37	AW009277.1	EST_HUMAN	ws80b07.x1 NCL_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2504245 3'
12309	24733		1.35	8.0E-37	W22618.1	EST_HUMAN	73D4 Human retina cDNA Tap5091-cleaved sublibrary Homo sapiens cDNA not directional
3350	16109	28765	0.99	8.0E-37	4757879	NT	Homo sapiens chimerin (chimerin) 2 (CHN2) mRNA
5168	17877		1.58	8.0E-37	BE698077.1	EST_HUMAN	CM0-UT0003-050800-503-d09 UT0003 Homo sapiens cDNA
5738	18530	31451	3.75	8.0E-37	BE350127.1	EST_HUMAN	h09g01.x1 NCL_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
5738	18530						MER29 repetitive element;
5738	18530	31452	3.75	8.0E-37	BE350127.1	EST_HUMAN	h09g01.x1 NCL_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
5787	18578	31507	8.24	8.0E-37	AW840840.1	EST_HUMAN	MER29 repetitive element;
7764	20479	33604	6.22	8.0E-37	XB7944.1	NT	RC1-CN0008-210100-012-a09_1 CN0008 Homo sapiens cDNA
1262	14011		3.03	7.0E-37	AL042800.1	EST_HUMAN	H.sapiens DNA, DMB, HLA-Z1, IFF2, LMP2, TAP1, LMP7, TAP2, DOB, DOB2 and RING8, 9, 13 and 14 genes
1738	14480	27179	0.97	7.0E-37	AF111167.2	NT	DKFZp434E0422_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434E0422 5'
1738	14480						Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
1738	14480	27180	0.97	7.0E-37	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
10657	23348	36595	8.69	7.0E-37	A1817700.1	EST_HUMAN	wk25b11.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413341 3' similar to contains PTR5.12
							PTR5 repetitive element;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10811	23494	36729	2.25	7.0E-37	AF538702.1	EST_HUMAN	tm87g03.x1 NC1 CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165140 3' similar to contains L1.b3 L1 repetitive element;
8338	21031	34168	1.34	6.0E-37	AF169889.1	NT	Homo sapiens protocadherin alpha 10 alternate isoform (PCDH-alpha10) mRNA, complete cds
12824	24929		2.94	6.0E-37	AF20723.1	NT	Homo sapiens Sed1 uno-84 domain protein 2 (SUN2) mRNA, partial cds
6002	18783	31744	3.9	5.0E-37	AA307123.1	EST_HUMAN	EST178035 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
6002	18783	31745	3.9	5.0E-37	AA307123.1	EST_HUMAN	EST178035 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
8654	21346	34490	0.9	5.0E-37	AV750211.1	EST_HUMAN	AV750211 NPC Homo sapiens cDNA clone NPCBIGH09 5'
10837	23519		4	5.0E-37	7657117	NT	Homo sapiens glycine C-acetyltransferase (2-amino-3-ketobutyrate-CoA lyase) (GCAT), mRNA
12055	24572		6.86	5.0E-37	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
2423	15144	27877	2.12	4.0E-37	AA702794.1	EST_HUMAN	280604.s1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:448015 3'
6194	18970	31945	0.61	4.0E-37	AW784502.1	EST_HUMAN	RC8-UM0014-210200-021-H05 UM0014 Homo sapiens cDNA
8258	21835	35109	0.74	4.0E-37	AA843808.1	EST_HUMAN	ak08c02.s1 Soares_parathyroid_tumor_NibHPA Homo sapiens cDNA clone IMAGE:1405442 3'
2010	14745	27472	3.2	3.0E-37	AL048956.1	EST_HUMAN	DKFZp434L2418_1 434 (synonym: hts63) Homo sapiens cDNA clone DKFZp434L2418
2010	14745	27473	3.2	3.0E-37	AL048956.1	EST_HUMAN	DKFZp434L2418_1 434 (synonym: hts63) Homo sapiens cDNA clone DKFZp434L2418
2065	15731		3.15	3.0E-37	AW861150.1	EST_HUMAN	EST1373222 MAGE resequences, MAGEF Homo sapiens cDNA
5774	18565	31494	0.92	3.0E-37	AL138274.1	EST_HUMAN	DKFZp547G087_1 547 (synonym: hibr1) Homo sapiens cDNA clone DKFZp547G087 5'
7455	20129	33221	0.71	3.0E-37	AI748952.1	EST_HUMAN	ak34c05.x1 Barstead colon HPLR87 Homo sapiens cDNA clone IMAGE:2373898 3' similar to TRQ13537
372	13197	25842	0.68	2.0E-37	D89780.1	NT	Q13537 SIMILAR TO POGO ELEMENT ;
372	13197	25843	0.68	2.0E-37	D89780.1	NT	Homo sapiens mRNA for AML1, complete cds
1058	13816	28477	2.64	2.0E-37	AU131202.1	EST_HUMAN	Homo sapiens mRNA for AML1, complete cds
1058	13816	28478	2.64	2.0E-37	AU131202.1	EST_HUMAN	AU131202 NT2RP3 Homo sapiens cDNA clone NT2RP3002168 5'
1958	14682	27405	1.97	2.0E-37	AL163247.2	NT	AU131202 NT2RP3 Homo sapiens cDNA clone NT2RP3002168 5'
3873	16823	28281	4.78	2.0E-37	4503210	NT	Homo sapiens chromosome 21 segment HS21C047
4988	17683		0.93	2.0E-37	AL163284.2	NT	Homo sapiens cytochrome P450, subfamily XXVIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1 (CYP27A1b) mRNA
5304	18109		0.66	2.0E-37	BF053327.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
6561	19326	32333	3.48	2.0E-37	AA348720.1	EST_HUMAN	601458531F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3862086 5'
7895	20590	33720	0.46	2.0E-37	BE537784.1	EST_HUMAN	EST52831 Fetal heart 10 Homo sapiens cDNA 5' end
7895	20590	33721	0.46	2.0E-37	BE537784.1	EST_HUMAN	601067534F1 NIH_MGC 10 Homo sapiens cDNA clone IMAGE:3453657 5'
7937	20632	33759	2.86	2.0E-37	BF204032.1	EST_HUMAN	601067534F1 NIH_MGC 10 Homo sapiens cDNA clone IMAGE:3453657 5'
11549	24148	37459	11.22	2.0E-37	AF176013.1	NT	601988157F1 NIH_MGC 17 Homo sapiens cDNA clone IMAGE:4111408 5'
12784	25037		3.94	2.0E-37	11417672	NT	Homo sapiens J domain containing protein 1 isoform b (JDP1) mRNA, complete cds
2081	14813	27546	4.93	1.0E-37	AL163281.2	NT	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3192	15955		1.08	1.0E-37	AW862082.1	EST_HUMAN	RC3-CT0347-210400-018-h03 CT0347 Homo sapiens cDNA
3943	16993	29932	0.72	1.0E-37	AF189011.1	NT	Homo sapiens ribonuclease III (RN3) mRNA, complete cds
4888	17615	30234	2.35	1.0E-37	BF371718.1	EST_HUMAN	QVO-FN0180-280700-318-c10 FN0180 Homo sapiens cDNA
5914	18699		0.84	1.0E-37	7305380	NT	Mus musculus otogelin (Otog), mRNA
8113	20807	33940	1.25	1.0E-37	BE546032.1	EST_HUMAN	601072419F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458308 5'
							zp21b02.r1 Stragene neuroepithelium (#837231) Homo sapiens cDNA clone IMAGE:610059 5' similar to contains L1.12 L1 repetitive element:
8834	21328	34468	2.57	1.0E-37	AA171408.1	EST_HUMAN	Human somatic cytochrome c (Hc1) processed pseudogene, complete cds
10597	23291	36529	2.98	1.0E-37	M22878.1	NT	CM3-FT0098-140700-243-d07 FT0098 Homo sapiens cDNA
12363	24766		2.81	1.0E-37	BE771814.1	EST_HUMAN	Human norvegicus multidomain presynaptic cytomatrix protein Piccolo (LOC58768), mRNA
5680	18483	31402	2	9.0E-38	10048482	NT	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
1200	13952	26816	2.02	8.0E-38	11436956	NT	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
2502	15219	27962	1.8	8.0E-38	BF346221.1	EST_HUMAN	602018401F1 NCI_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4153992 5'
12420	13952	26816	1.6	8.0E-38	11436955	NT	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
4197	16938	29563	0.73	7.0E-38	H18082.1	EST_HUMAN	Yn5107.r1 Soares adult brain N2b5-IB55Y Homo sapiens cDNA clone IMAGE:171973 5'
5039	17758		1.31	7.0E-38	AF267283.1	NT	Mus musculus ATP-binding cassette 1, sub-family A, member 1 (Abca1) gene, complete cds
3037	15803	28450	1.2	6.0E-38	BF033033.1	EST_HUMAN	60145572F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3868948 5'
5502	18300	31189	1.6	6.0E-38	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5502	18300	31200	1.6	6.0E-38	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
7228	19913	32986	0.57	6.0E-38	8823130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
11918	24480		2.67	6.0E-38	11435947	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
12395	24783	31038	12.79	6.0E-38	AB002058.1	NT	Homo sapiens DNA for Human P2XM, complete cds
12767	25161	30900	1.7	6.0E-38	11418164	NT	Homo sapiens adenylosuccinate lyase (ADSL), mRNA
710	13494	26133	1.38	5.0E-38	AW971819.1	EST_HUMAN	EST383908 MAGE resequences, MAGL Homo sapiens cDNA
2455	15173	27912	0.99	5.0E-38	AJ237740.1	NT	Homo sapiens RIBIR gene (partial), exon 8
3849	16446	28086	0.85	5.0E-38	7548804	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
3917	16697	28307	0.92	5.0E-38	T83107.1	EST_HUMAN	Yd40H07.r1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:110749 5' similar to SP-OLF3 MOUSE P23275 OLFACTORY RECEPTOR:
3917	16697	28308	0.92	5.0E-38	T83107.1	EST_HUMAN	Yd40H07.r1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:110749 5' similar to SP-OLF3 MOUSE P23275 OLFACTORY RECEPTOR:
6930	19666	32712	1.48	5.0E-38	BE871610.1	EST_HUMAN	SP-OLF3_MOUSE P23275 OLFACTORY RECEPTOR:
116	12936	25575	4.59	4.0E-38	Z25468.1	NT	B.taurus mitochondrial aspartate aminotransferase mRNA, complete CDS
116	12936	25576	4.59	4.0E-38	Z25468.1	NT	B.taurus mitochondrial aspartate aminotransferase mRNA, complete CDS
2093	14824		5.25	3.0E-38	AF003530.1	NT	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions
3684	16437		2.19	3.0E-38	7549807	NT	Homo sapiens HIRA Interacting protein 4 (dna-Like) (HIRIP4), mRNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3838	16587	29224	1.76	3.0E-38	P53538	SWISSPROT	SSU72 PROTEIN
3836	16587	29225	1.76	3.0E-38	P53538	SWISSPROT	SSU72 PROTEIN
4574	17309		1.47	3.0E-38	BE278801.1	EST_HUMAN	601157833F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3504272 5'
6955	25097	32430	8.11	3.0E-38	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
7144	19831	32900	0.66	3.0E-38	AW302461.1	EST_HUMAN	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
7488	20160	33252	8.26	3.0E-38	BF373684.1	EST_HUMAN	CH3-F10181-140700-241-407 F10181 Homo sapiens cDNA
8548	21240	34383	2.1	3.0E-38	H85494.1	EST_HUMAN	CH3-F10181-140700-241-407 F10181 Homo sapiens cDNA clone IMAGE:249775 5'
8548	21240	34384	2.1	3.0E-38	H85494.1	EST_HUMAN	CH3-F10181-140700-241-407 F10181 Homo sapiens cDNA clone IMAGE:249775 5'
8872	22622		2.24	3.0E-38	AL163248.2	NT	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
12630	17898	30488	1.65	3.0E-38	11435847	NT	CH3-F10181-140700-241-407 F10181 Homo sapiens cDNA clone IMAGE:249775 5'
49	12878	25504	1.4	2.0E-38	AL163248.2	NT	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
1358	14106	28761	2.89	2.0E-38	5902087	NT	CH3-F10181-140700-241-407 F10181 Homo sapiens cDNA clone IMAGE:249775 5'
1641	14387	27076	2.21	2.0E-38	AA437953.1	EST_HUMAN	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
1641	14387	27076	2.21	2.0E-38	AA437953.1	EST_HUMAN	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
2408	15129	27865	1.45	2.0E-38	W76571.1	EST_HUMAN	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
5632	18427	31339	0.69	2.0E-38	Z26634.2	NT	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
5632	18427	31340	0.69	2.0E-38	Z26634.2	NT	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
7619	20285	33365	1.48	2.0E-38	AV721103.1	EST_HUMAN	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
8382	21075		4.38	2.0E-38	BE165980.1	EST_HUMAN	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
8763	21485	34631	0.56	2.0E-38	F06450.1	EST_HUMAN	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
8864	21555	34700	2.04	2.0E-38	AF069755.1	NT	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
9121	21809		1.06	2.0E-38	BE222258.1	EST_HUMAN	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
10346	22893	36212	1.71	2.0E-38	D63479.2	NT	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
11200	23865	37151	1.37	2.0E-38	AA595480.1	EST_HUMAN	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
11200	23865	37152	1.37	2.0E-38	AA595480.1	EST_HUMAN	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
11472	24073	37382	5.79	2.0E-38	BE712790.1	EST_HUMAN	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'
11638	24235	37557	3.52	2.0E-38	AF190501.1	NT	xi04401.x1 NCI_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2827009 3'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11638	24235	37558	3.52	2.0E-38	AF190501.1	NT	Homo sapiens leucine-rich repeat-containing G protein-coupled receptor 6 (LGR6) mRNA, partial cds
11971	24517		3.05	2.0E-38	AV728988.1	EST_HUMAN	AV728988 HTC Homo sapiens cDNA clone HTCAV07 5'
11973	24518		2.08	2.0E-38	AB012723.1	NT	Homo sapiens gene for kinesin-like protein, complete cds
12880	24705	31081	6.45	2.0E-38	H55641.1	EST_HUMAN	CHIR220590 Chromosome 22 exon Homo sapiens cDNA clone C22_788 5'
12323	24742		1.43	2.0E-38	S74906.1	NT	E1 beta-pyruvate dehydrogenase beta (promoter) [human, placenta, Genomic, 1280 nt]
12777	25031		3.76	2.0E-38	11418248	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
1071	13829		2.55	1.0E-38	AA401570.1	EST_HUMAN	zu6202.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:742539 5' similar to contains element
1892	14728	27450	2.53	1.0E-38	4885288	NT	MER19 repetitive element;
2012	14747	27475	1.11	1.0E-38	7601969	NT	Homo sapiens guanine nucleotide binding protein-like 1 (GNL1), mRNA
2499	15216	27960	2.34	1.0E-38	AF270831.1	NT	Homo sapiens cyclin K (CCNK) gene, exon 7
4280	17029	28655	1.23	1.0E-38	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4290	17029	28656	1.23	1.0E-38	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4558	17293	29921	1	1.0E-38	8922543	NT	Homo sapiens hypothetical protein FLJ10600 (FLJ10600), mRNA
5637	18719	31677	4.71	1.0E-38	7305360	NT	Mus musculus dogelin (Obog), mRNA
5637	18719	31678	4.71	1.0E-38	7305360	NT	Mus musculus dogelin (Obog), mRNA
7304	18987	33063	3.15	1.0E-38	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
9051	21740	34898	0.71	1.0E-38	11422250	NT	Homo sapiens hypothetical protein FLJ10600 (FLJ10600), mRNA
9310	21977	35150	5.13	1.0E-38	BE350127.1	EST_HUMAN	h08g01.x1 NCL_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3148258 3' similar to contains MER29.b3
10301	22948	36163	0.58	1.0E-38	R18512.1	EST_HUMAN	MER29 repetitive element;
11588	24187	37503	1.28	1.0E-38	7682109	NT	yf86b08.1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:30488 5'
12118	25140		2.2	1.0E-38	AL163284.2	NT	Homo sapiens KIAA0428 gene product (KIAA0428), mRNA
53	12882	25510	15.3	8.0E-39	4502312	NT	Homo sapiens ATPase, H+-transporting, lysosomal (vacuolar proton pump) 16kD (ATP6C) mRNA
1373	14121	26766	1.45	8.0E-39	4758228	NT	Homo sapiens estrogen receptor-binding fragment-associated gene 9 (EBAG9) mRNA
1821	14560		1.27	8.0E-39	A1829404.1	EST_HUMAN	wh33f10.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384491 3' similar to TFC:P87890 P87890
2087	14819	27550	5.78	7.0E-39	AL163227.2	NT	POL PROTEIN;
10711	23400	36639	2.24	6.0E-39	BF331829.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C027
12896	24979		1.66	6.0E-39	BE070394.1	EST_HUMAN	QV1-BT0631-04900-357-02 BT0631 Homo sapiens cDNA
987	13750	28412	1.57	5.0E-39	AF003528.1	NT	7634c08.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284356 3' similar to WP:R151.6 CE00828; Homo sapiens X-linked arylidic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2884	15780	28387	8.82	5.0E-39	AI750154.1	EST_HUMAN	ai288404.x1 Barstead cdon HPLRB7 Homo sapiens cDNA clone IMAGE:2374063 3' similar to TR:Q15408
12410	24763		2.04	5.0E-39	11420289	NT	Q15408 NEUTRAL PROTEASE LARGE SUBUNIT; contains LTR7.1 LTR7 repetitive element;
537	13320	25954	6.78	4.0E-39	AB016610.1	NT	Homo sapiens hypothetical protein FLJ10803 (FLJ10803), mRNA
3559	16314	28951	0.97	4.0E-39	AL163210.2	NT	Chlorococcus aesthiops mRNA for ribosomal protein S4X, complete cds
							Homo sapiens chromosome 21 segment HS21C010
							ae92q04.s1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:1020498 3' similar to contains
							OFRR.b1 OFR repetitive element;
7974	20669	33791	1.27	4.0E-39	AA682849.1	EST_HUMAN	Homo sapiens DNA for prostacyclin synthase, exon 2
8228	21807	35078	0.56	4.0E-39	DB4116.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 2
8228	21807	35079	0.56	4.0E-39	DB4116.1	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12427	24802		4.47	4.0E-39	11418177	NT	
12534	24878		2.71	4.0E-39	BE636452.1	EST_HUMAN	QV0-FN0063-260600-278-c08 FN0063 Homo sapiens cDNA
46	12875	25498	14.86	3.0E-39	AA631949.1	EST_HUMAN	frnc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
46	12875	25499	14.86	3.0E-39	AA631949.1	EST_HUMAN	frnc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
46	12875	25500	14.86	3.0E-39	AA631949.1	EST_HUMAN	frnc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
11963	24511	37257	4.35	3.0E-39	AI094557.1	EST_HUMAN	cx63a10.s1 Soares NH-IMPu_S1 Homo sapiens cDNA clone IMAGE:1660988 3' similar to SW:GTR5_RAT
							P43427 GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE;
11963	24511	37258	4.35	3.0E-39	AI094557.1	EST_HUMAN	cx63a10.s1 Soares NH-IMPu_S1 Homo sapiens cDNA clone IMAGE:1660988 3' similar to SW:GTR5_RAT
12008	24541		5.82	3.0E-39	H37803.1	EST_HUMAN	P43427 GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE;
877	13846		5.8	2.0E-39	BE409203.1	EST_HUMAN	y651c08.s1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:160954 3'
882	13661		14.08	2.0E-39	AI525119.1	EST_HUMAN	601301607F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636289 5'
1009	13769		4.2	2.0E-39	AF000573.1	NT	promima-7 D01.1 bvtumor Homo sapiens cDNA 5'
1520	14267		11.91	2.0E-39	AW372318.1	EST_HUMAN	Homo sapiens homogenisate 1,2-dioxygenase gene, complete cds
							PMO-BT0340-211289-003-d02 BT0340 Homo sapiens cDNA
1098	14702	27419	3.28	2.0E-39	AA720574.1	EST_HUMAN	mw21g02.s1 NCL_CGAP_GCB0 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR.13
2834	16348	28089	1.84	2.0E-39	AL163248.2	NT	THR repetitive element;
4370	17108	29743	1.48	2.0E-39	BF370207.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C048
5403	18203	30907	4.21	2.0E-39	AA508880.1	EST_HUMAN	RC4-FN0037-280700-011-a10 FN0037 Homo sapiens cDNA
7269	19653	33029	2.36	2.0E-39	AA080867.1	EST_HUMAN	ng68703.s1 NCL_CGAP_P16 Homo sapiens cDNA clone IMAGE:941893
7431	20108	33195	0.72	2.0E-39	AL163202.2	NT	zr08702.1 Strategene hNT neuron (#637233) Homo sapiens cDNA clone IMAGE:546651 5'
7431	20108	33196	0.72	2.0E-39	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
8209	20903	34038	0.67	2.0E-39	AF078776.1	NT	Homo sapiens chromosome 21 segment HS21C002
9394	22058		0.55	2.0E-39	AA984531.1	EST_HUMAN	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
							am88c11.s1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:1630186 3'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9526	22179		0.73	2.0E-39	A168690.1	EST_HUMAN	tu35603.x1 NC1_CGAP_P128 Homo sapiens cDNA clone IMAGE:2263052 3'
11409	24058	37365	2.97	2.0E-39	D86984.1	NT	Human mRNA for KIAA0209 gene, partial cds
1503	14249	26936	3.71	1.0E-39	AJ008345.1	NT	Homo sapiens KVLQT1 gene
1503	14249	26937	3.71	1.0E-39	AJ008345.1	NT	Homo sapiens KVLQT1 gene
1521	14268	26952	4.24	1.0E-39	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4098	16941	29467	0.7	1.0E-39	11430303	NT	Homo sapiens catenin (cadherin-associated protein), alpha 2 (CTNNA2), mRNA
4098	16941	29468	0.7	1.0E-39	11430303	NT	Homo sapiens catenin (cadherin-associated protein), alpha 2 (CTNNA2), mRNA
4612	17347	29980	2.5	1.0E-39	AW951895.1	EST_HUMAN	EST364065 MAGE resequences, MAGB Homo sapiens cDNA
4612	17347	29981	2.5	1.0E-39	AW951895.1	EST_HUMAN	EST364065 MAGE resequences, MAGB Homo sapiens cDNA
4664	17388	30021	8.86	1.0E-39	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
5274	18079	30735	1.02	1.0E-39	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaforin) 5A (SEMA5A), mRNA
5274	18079	30736	1.02	1.0E-39	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaforin) 5A (SEMA5A), mRNA
5542	18339	31246	1.97	1.0E-39	T80876.1	EST_HUMAN	y22g08.r1 Soares fetal liver spleen 1NPLS Homo sapiens cDNA clone IMAGE:109402 5' similar to contains Alu repetitive element; contains LTR1 repetitive element;
5578	18375	31287	4.84	1.0E-39	AJ278170.1	NT	Mus musculus mRNA for neuronal interacting factor X1 (NIX1) (Nix1 gene)
5578	18375	31288	4.84	1.0E-39	AJ278170.1	NT	Mus musculus mRNA for neuronal interacting factor X1 (NIX1) (Nix1 gene)
6727	19561		1.57	1.0E-39	11436798	NT	Homo sapiens tubby like protein 3 (TULP3), mRNA
7264	19948	33025	1.8	1.0E-39	D78132.1	NT	Homo sapiens mRNA for ras-related GTP-binding protein, complete cds
8462	21154	34297	1.03	1.0E-39	O46530	SWISSPROT	RIBONUCLEASE K6 PRECURSOR (RNASE K6)
12357	24761		1.34	1.0E-39	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
542	13325	28957	1.68	9.0E-40	5803210	NT	Homo sapiens UDP-glucose pyrophosphorylase 2 (UGP2), mRNA
1213	13963	28629	15.14	9.0E-40	4755145	NT	Homo sapiens AE-binding protein 1 (AEBP1) mRNA
1213	13963	28630	15.14	9.0E-40	4755145	NT	Homo sapiens AE-binding protein 1 (AEBP1) mRNA
1432	14179	28865	6.54	9.0E-40	4507512	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3) mRNA
3765	16517	29155	0.97	9.0E-40	4503784	NT	Homo sapiens fragile X mental retardation 1 (FMR1) mRNA
3956	17678	28343	3.89	9.0E-40	AB033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cds
3036	15802	28449	0.84	8.0E-40	AA078165.1	EST_HUMAN	7H15A04 Chromosome 7 Hela cDNA Library Homo sapiens cDNA clone 7H15A04
3903	16653		3.35	8.0E-40	BE386641.1	EST_HUMAN	601288958F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3619168 5'
7616	20282	33390	2.03	7.0E-40	U80325.1	NT	Human DNA polymerase gamma mRNA, nuclear gene encoding mitochondrial protein, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7616	20282	33391	2.03	7.0E-40	U60325.1	NT	Human DNA polymerase gamma mRNA, nuclear gene encoding mitochondrial protein, complete cds
10813	23496	36732	2.27	7.0E-40	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2730	15437	28174	8.41	6.0E-40	AA381275.1	EST_HUMAN	EST70527 T-cell lymphoma Homo sapiens cDNA 5' end similar to similar to zinc finger protein family
2730	15437	28175	8.41	6.0E-40	AA381275.1	EST_HUMAN	EST70527 T-cell lymphoma Homo sapiens cDNA 5' end similar to similar to zinc finger protein family
5949	18636		2.24	6.0E-40	BE504766.1	EST_HUMAN	h240901.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:3210480 3'
6055	18635		1.11	6.0E-40	7681989	NT	Homo sapiens KIAA0211 gene product (KIAA0211), mRNA
6836	19498	32522	3.56	6.0E-40	11439783	NT	Homo sapiens fatty acid desaturase 1 (FADS1), mRNA
6836	19498	32523	3.56	6.0E-40	11439783	NT	Homo sapiens fatty acid desaturase 1 (FADS1), mRNA
9877	22527	35722	10.25	6.0E-40	AV653028.1	EST_HUMAN	AV653028 GLC Homo sapiens cDNA clone GLCDGF04 3'
9877	22527	35723	10.25	6.0E-40	AV653028.1	EST_HUMAN	AV653028 GLC Homo sapiens cDNA clone GLCDGF04 3'
1869	14607	27316	1.78	4.0E-40	AI686005.1	EST_HUMAN	1891b01.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2248873 3' similar to TR-073505 O73505 POL PROTEIN. ;
2101	14832		2.27	4.0E-40	AF003528.1	NT	Homo sapiens X-linked arylidic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
4356	17094	29729	9.08	4.0E-40	7682117	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
7786	20481	33606	0.5	4.0E-40	AU127831.1	EST_HUMAN	AU127831 NT2RP2 Homo sapiens cDNA clone NT2RP2002172 5'
7860	20585	33714	6.22	4.0E-40	AA742809.1	EST_HUMAN	m34e10.r1 NCI_CGAP_Br4 Homo sapiens cDNA clone IMAGE:1222122
8853	21644	34793	5.17	4.0E-40	BE009416.1	EST_HUMAN	PMO-BN0167-070500-002-h12 BN0167 Homo sapiens cDNA
8853	21644	34794	5.17	4.0E-40	BE009416.1	EST_HUMAN	PMO-BN0167-070500-002-h12 BN0167 Homo sapiens cDNA
10816	23309	36548	3.03	4.0E-40	AW841595.1	EST_HUMAN	RC1-CN0017-120200-012-e04 CN0017 Homo sapiens cDNA
4111	16854	29481	1.02	3.0E-40	AI826949.1	EST_HUMAN	wh1207.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2380549 3'
6543	19308	32313	7.02	3.0E-40	11417342	NT	Homo sapiens ecma domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
8280	20974	34115	3.62	3.0E-40	5454167	NT	Homo sapiens HBV associated factor (XAP4) mRNA
8868	21559	34704	1.25	3.0E-40	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
9111	21769	34963	1.42	3.0E-40	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
11232	23895	37182	8.36	3.0E-40	6005813	NT	Homo sapiens serine threonine protein kinase (NDR), mRNA
11563	24162	37473	2.23	3.0E-40	AW118796.1	EST_HUMAN	xd96h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2805491 3' similar to TR-Q15804 Q15804 SIMILAR TO ENV OF TYPE A AND TYPE B RETROVIRUSES AND TO CLASS II HERVS ;
917	13120		8.63	2.0E-40	AI223036.1	EST_HUMAN	q952f08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638847 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
777	13549		1.61	2.0E-40	AW303888.1	EST_HUMAN	x24e10.x1 NCL_CGAP_U4 Homo sapiens cDNA clone IMAGE:2761068 3' similar to SW:RS5_MOUSE
1818	14557		0.92	2.0E-40	AV731801.1	EST_HUMAN	P97461.40S RIBOSOMAL PROTEIN S5 ;
1927	14683	27375	1.58	2.0E-40	4506188	NT	AV731601 HTF Homo sapiens cDNA clone HTFAZE05 6'
1927	14683	27378	1.58	2.0E-40	4506188	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 7 (PSMA7) mRNA, and translated products
2084	14798	27522	1.21	2.0E-40	A1988582.1	EST_HUMAN	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 7 (PSMA7) mRNA, and translated products
2168	14895	27630	2.48	2.0E-40	5453592	NT	w80a11.x1 NCL_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2514716 3' similar to TR:Q81929 Q81929
2685	15404		1.44	2.0E-40	BE276932.1	EST_HUMAN	ZINC FINGER PROTEIN ;
3123	15888	28529	4.28	2.0E-40	5453582	NT	Homo sapiens adenyl cyclase-associated protein 2 (CAP2) mRNA
4843	17573	30197	1.68	2.0E-40	AL163280.2	NT	601121567F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345784 5'
4843	17573	30198	1.68	2.0E-40	AL163280.2	NT	Homo sapiens adenyl cyclase-associated protein 2 (CAP2) mRNA
863	19332		1.78	1.0E-40	AA225688.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C080
2827	15339	28083	0.83	1.0E-40	BF036881.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C080
2682	15401		1.34	1.0E-40	BE018348.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C080
2741	15447	28185	1.18	1.0E-40	BF541030.1	EST_HUMAN	nc08a09.s1 NCL_CGAP_P11 Homo sapiens cDNA clone IMAGE:1007608
2741	15447	28186	1.18	1.0E-40	BF541030.1	EST_HUMAN	601460376F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3863803 5'
3292	16053		1.27	1.0E-40	4507142	NT	bb78a10.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048570 5' similar to TR:Q8Z158 Q8Z158
4571	17308	28834	4.52	1.0E-40	4508012	NT	SYNTAXIN 17 ;
6161	18938	31907	0.75	1.0E-40	W92708.1	EST_HUMAN	602068604F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4067736 5'
6161	18938	31908	0.75	1.0E-40	W92708.1	EST_HUMAN	602068604F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4067736 5'
6987	18980	32727	1.77	1.0E-40	AA573201.1	EST_HUMAN	Homo sapiens sorting nexin 3 (SNX3) mRNA
6987	18980	32728	1.77	1.0E-40	AA573201.1	EST_HUMAN	Homo sapiens zinc finger protein 200 (ZNF200) mRNA, and translated products
7133	19820	32888	0.69	1.0E-40	P28808	SWISSPROT	zh78f11.s1 Scores_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418317 3'
10834	23516	36768	8.34	1.0E-40	AU146345.1	EST_HUMAN	zh78f11.s1 Scores_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418317 3'
11684	24289	37612	1.89	1.0E-40	AA614255.1	EST_HUMAN	ij4204.s1 NCL_CGAP_AA1 Homo sapiens cDNA clone IMAGE:395167 3'
11684	24289	37613	1.89	1.0E-40	AA614255.1	EST_HUMAN	ij4204.s1 NCL_CGAP_AA1 Homo sapiens cDNA clone IMAGE:395167 3'
12376	25274		10.09	1.0E-40	BF334112.1	EST_HUMAN	POL POLYPROTEIN [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; RIBONUCLEASE H]
7822	20517	33843	1.62	8.0E-41	AL163203.2	NT	AU149345 NT2RM4 Homo sapiens cDNA clone NT2RM4002122 3'
							np08h03.s1 NCL_CGAP_P13 Homo sapiens cDNA clone IMAGE:1115861 similar to TR:G1138406
							G1138406 KIAA0173 PROTEIN ;
							np08h03.s1 NCL_CGAP_P13 Homo sapiens cDNA clone IMAGE:1115861 similar to TR:G1138406
							G1138406 KIAA0173 PROTEIN ;
							MR2-CT0222-211088-002-e10 CT0222 Homo sapiens cDNA
							Homo sapiens chromosome 21 segment HS21C003

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
809	15553	26246	1.24	7.0E-41	AB34384.1	EST_HUMAN	wp04h04.x1 NC1_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2463895 3'
809	15553	26247	1.24	7.0E-41	AB34384.1	EST_HUMAN	wp04h04.x1 NC1_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2463895 3'
4609	17344	26976	0.92	7.0E-41	BE389592.1	EST_HUMAN	601282077F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603955 5'
4609	17344	26977	0.92	7.0E-41	BE389592.1	EST_HUMAN	601282077F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603955 5'
5183	17891	30507	1.2	7.0E-41	11545770	NT	Homo sapiens hypothetical protein FLJ13188 (FLJ13188), mRNA
5918	18703	31656	3.49	7.0E-41	11418208	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
6280	19034	32009	0.61	7.0E-41	11433010	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1), mRNA
6995	17971	30528	0.68	7.0E-41	U72335.1	NT	Human platelet activating factor acetylhydrolase, brain isoform, 45 kDa subunit (LIS1) gene, exons 3 and 4
11411	24060	37366	2.23	7.0E-41	4758445	NT	Homo sapiens guanine nucleotide binding protein 10 (GNG10) mRNA
11631	24228	37562	1.73	7.0E-41	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
12782	25271		4.35	7.0E-41	11417972	NT	Homo sapiens pascadillo (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA
274	13081	25724	1.19	6.0E-41	AB037163.1	NT	Homo sapiens DSCR5b mRNA, complete cds
2104	14835	27569	2.04	6.0E-41	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
4433	17169	29797	0.91	6.0E-41	BE567818.1	EST_HUMAN	601340486F1 NIH_MGC_63 Homo sapiens cDNA clone IMAGE:3682677 5'
7871	20566	33692	1.44	6.0E-41	BF513783.1	EST_HUMAN	UH-HBW1-emp-b-03-Q-U1.s1 NC1_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070421 3'
1795	14535	27244	1.11	6.0E-41	T62628.1	EST_HUMAN	yc03a10.s1 Stratiogene lung (#837210) Homo sapiens cDNA clone IMAGE:76628 3'
4087	16830		1.07	6.0E-41	4985636	NT	Homo sapiens target of myb1 (chicken) homolog (TOM1), mRNA
6452	19220		2.29	5.0E-41	BE067042.1	EST_HUMAN	PM4-BT0341-251189-002-F11 BT0341 Homo sapiens cDNA
982	13169		2.42	4.0E-41	BE156318.1	EST_HUMAN	QV0-HT0367-150200-114-g09 HT0367 Homo sapiens cDNA
1076	13834	28482	1.26	4.0E-41	AU116944.1	EST_HUMAN	AU116944 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
1388	14135	26810	15.51	4.0E-41	A1027117.1	EST_HUMAN	ow45e08.s1 Soares_papillarydld_tumor_Nb1-IPA Homo sapiens cDNA clone IMAGE:1649794 3' similar to TR:O00597 O00597 CYTOCHROME C-LIKE POLYPEPTIDE ; contains LTR5.b1 LTR5 repetitive element ;
1388	14135	26811	15.51	4.0E-41	A1027117.1	EST_HUMAN	ow45e08.s1 Soares_papillarydld_tumor_Nb1-IPA Homo sapiens cDNA clone IMAGE:1649794 3' similar to TR:O00597 O00597 CYTOCHROME C-LIKE POLYPEPTIDE ; contains LTR5.b1 LTR5 repetitive element ;
1403	14150	26830	1.88	4.0E-41	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
1632	14378	27065	6.08	4.0E-41	A1500408.1	EST_HUMAN	tm86c04.x1 NC1_CGAP_Bin25 Homo sapiens cDNA clone IMAGE:2165858 3' similar to contains OFR.b1 OFR repetitive element ;
2891	15658	28302	3.55	4.0E-41	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
2891	15658	28303	3.55	4.0E-41	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4124	16866	29493	2.24	4.0E-41	X92685.1	NT	H. sapiens DNase I hypersensitive site (HSS-3) enhancer element

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6416	19184		1.41	4.0E-41	AV758295.1	EST_HUMAN	AV758295 BM Homo sapiens cDNA clone BMFBHC06 5'
6593	22248	35430	7.24	4.0E-41	BF304683.1	EST_HUMAN	601888086F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5'
11671	24268		11.07	4.0E-41	AV710480.1	EST_HUMAN	AV710480 Cu Homo sapiens cDNA clone CuAAC007 5'
12546	26184		1.63	4.0E-41	AV708431.1	EST_HUMAN	AV708431 ADC Homo sapiens cDNA clone ADCARE02 5'
12727	24998	30971	1.69	4.0E-41	BE887118.1	EST_HUMAN	601508315F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910059 5'
827	13694	26358	2.68	3.0E-41	AB030176.1	NT	Homo sapiens PAD-H18 mRNA for peptidylarginine deaminase type II, complete cds
4901	17040	28687	2.45	3.0E-41	AB028698.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
5404	18204	30908	7.78	3.0E-41	X87688.1	NT	H. sapiens mRNA for putative p64 CLCP protein
6288	19061	32043	1.59	3.0E-41	AB037808.1	NT	Homo sapiens mRNA for KIAA1387 protein, partial cds
7159	19848	32916	0.71	3.0E-41	AA356168.1	EST_HUMAN	EST84983 Jurkat T-cells VI Homo sapiens cDNA 5' end
11730	24323	37647	1.28	3.0E-41	AJ293041.1	NT	Homo sapiens 989 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
11924	24485		1.52	3.0E-41	AA6030788.1	EST_HUMAN	af17f10.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1031947 3'
12456	24825		1.48	3.0E-41	BF126922.1	EST_HUMAN	601762940F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4026081 5'
1817	14289	26987	5.17	2.0E-41	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
1951	14686	27399	1.84	2.0E-41	AA331940.1	EST_HUMAN	EST35818 Embryo, 8 week I Homo sapiens cDNA 5' end
2216	14944	27684	1.54	2.0E-41	D86982.1	NT	Human mRNA for KIAA0207 gene, complete cds
2284	14990	27730	3.34	2.0E-41	X69631.1	NT	G.gorilla DNA for ZNF80 gene homolog
2831	14299	26987	4.65	2.0E-41	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
3321	16081	28731	1.41	2.0E-41	AA449549.1	EST_HUMAN	200804.r1 Soares_testis_Nb2HIF8_9w Homo sapiens cDNA clone IMAGE:785839 5'
4579	17314	28942	1.17	2.0E-41	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C087
4579	17314	28943	1.17	2.0E-41	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C087
5141	17859	30475	0.9	2.0E-41	AW286547.1	EST_HUMAN	3x747708.x1 NC1_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2887363 3' similar to TR-O70843 O70343 (PPAR GAMMA COACTIVATOR 1);
6530	18288	32300	0.76	2.0E-41	4504778	NT	Homo sapiens Integrin, beta 8 (ITGB8) mRNA
7672	20241	33346	8.08	2.0E-41	AF039404.1	NT	Homo sapiens homolog of Nedd5 (hNedd5) mRNA, complete cds
7867	20682	33786	1.45	2.0E-41	M69844.1	NT	Human B-cell specific transcription factor (BSAP) mRNA, complete cds
7867	20682	33787	1.45	2.0E-41	M69844.1	NT	Human B-cell specific transcription factor (BSAP) mRNA, complete cds
7866	20680	33818	1.12	2.0E-41	AA328265.1	EST_HUMAN	EST31723 Embryo, 12 week I Homo sapiens cDNA 5' end
8874	21585	34710	1.61	2.0E-41	P52742	SWISSPROT	ZINC FINGER PROTEIN 135
8317	21884	35155	0.52	2.0E-41	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
8317	21884	35156	0.52	2.0E-41	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
11468	24071	37378	2.76	2.0E-41	A4372637.1	EST_HUMAN	EST84555 Colon adenocarcinoma IV Homo sapiens cDNA 5' end
3201	15684	28616	1.05	1.0E-41	BE889735.1	EST_HUMAN	601445647F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3849803 5'

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3201	15084	28817	1.05	1.0E-41	BE889735.1	EST_HUMAN	601445847F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849803 5'
4529	17284	29897	14.08	1.0E-41	6678468	NT	Mus musculus tubulin alpha 8 (Tub8), mRNA
6749	17918	30582	0.66	1.0E-41	H99079.1	EST_HUMAN	yt18b03.s1 Soares melanocyte 2NblHM Homo sapiens cDNA clone IMAGE:282061 3'
9318	21985	35157	1.89	1.0E-41	A1217868.1	EST_HUMAN	q7f6c10.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1755838 3'
11111	23781	37058	1.68	1.0E-41	AW847812.1	EST_HUMAN	IL3-CT10213-190200-040-F09 CT0213 Homo sapiens cDNA
12054	24571		2.81	1.0E-41	11526291	NT	Homo sapiens hypothetical protein FLJ20464 (FLJ20464), mRNA
8418	21111		1.14	9.0E-42	BE179191.1	EST_HUMAN	RC0-HT0613-210300-032-g01 HT0613 Homo sapiens cDNA
9072	21761	34922	3.49	9.0E-42	11660161	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9072	21761	34923	3.49	9.0E-42	11660151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
450	13236	25875	7.71	8.0E-42	AF003630.1	NT	Homo sapiens homeobox protein GDX4 (GDX4) gene, complete cds and flanking repeat regions
2102	14833	27567	0.92	8.0E-42	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
12093	25277		4.4	8.0E-42	AA493898.1	EST_HUMAN	ht07c02.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:943588 similar to TRC:G434304 G434304 3'BTBP EXPRESSED SEQUENCE TAG MRNA:
12111	25154		1.56	8.0E-42	AW088082.1	EST_HUMAN	xc97a04.x1 NCI_CGAP_Bn35 Homo sapiens cDNA clone IMAGE:2592174 3' similar to contains OFR.12
911	13678		2.58	7.0E-42	AL163285.2	NT	OFR repetitive element:
9143	21874	35039	1.57	7.0E-42	A1204358.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C085
11126	23795	37071	1.3	7.0E-42	AA598592.1	EST_HUMAN	qf59g12.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1754278 3'
11126	23795	37072	1.3	7.0E-42	AA598592.1	EST_HUMAN	nf23g07.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:914682
1848	14598	27239	3.21	6.0E-42	AF012872.1	NT	nf23g07.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:914682
1848	14598	27300	3.21	6.0E-42	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
2287	15012		3.55	6.0E-42	AW238858.1	EST_HUMAN	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
5361	18181	30871	1.63	6.0E-42	AB028990.1	NT	xp28f08.x1 NCI_CGAP_H1N10 Homo sapiens cDNA clone IMAGE:2741789 3' similar to contains L1.H L1
5630	18181	30871	1.45	6.0E-42	AB028990.1	NT	repetitive element:
182	12947		7.53	5.0E-42	AJ271735.1	NT	Homo sapiens mRNA for KIAA1067 protein, partial cds
428	13214	25858	1.41	5.0E-42	BE217913.1	EST_HUMAN	Homo sapiens mRNA for KIAA1067 protein, partial cds
474	13280		2.57	5.0E-42	5730038	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
475	13281		2.74	5.0E-42	5730038	NT	Homo sapiens SET domain and matrin transposase fusion gene (SETMAR) mRNA
6587	18350	32363	1.04	5.0E-42	11433063	NT	Homo sapiens SET domain and matrin transposase fusion gene (SETMAR) mRNA
6587	18350	32364	1.04	5.0E-42	11433063	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A), mRNA
6587	18350	32364	1.04	5.0E-42	11433063	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6704	19819	32882	3.12	5.0E-42	11417857	NT	Homo sapiens myotubularin related protein 3 (MTMR3), mRNA
							Homo sapiens multifunctional calcium/calmodulin-dependent protein kinase II delta2 isoform mRNA, complete cds
7101	19789	32854	1.89	5.0E-42	AF071568.1	NT	Homo sapiens reelin (RELN) mRNA
7711	20375	33488	0.57	5.0E-42	4826977	NT	
8677	21369	34515	3.55	5.0E-42	AB037715.1	NT	Homo sapiens mRNA for KIAA1284 protein, partial cds
10920	23600	36849	2.44	5.0E-42	8923162	NT	Homo sapiens hypothetical protein FLJ20163 (FLJ20163), mRNA
736	13510	26167	5.09	4.0E-42	AF055066.1	NT	Homo sapiens MHC class 1 region
736	13510	26168	5.09	4.0E-42	AF055068.1	NT	Homo sapiens MHC class 1 region
1044	13803	26462	3.46	4.0E-42	AF189011.1	NT	Homo sapiens ribonuclease III (RN3) mRNA, complete cds
4171	18911	29541	1.22	4.0E-42	X69417.1	NT	H. sapiens PROS-27 mRNA
4202	16843	29570	1.07	4.0E-42	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
4223	16884	29589	4.15	4.0E-42	4506498	NT	Homo sapiens regulatory factor X, 4 (influences HLA class II expression) (RFX4) mRNA
4543	17278	28909	15.12	4.0E-42	4508008	NT	Homo sapiens zinc finger protein 177 (ZNF177) mRNA
10546	23241	36476	1.58	4.0E-42	AW818630.1	EST_HUMAN	RC1-ST0278-040400-018-h11 ST0278 Homo sapiens cDNA
10545	23241	36476	1.58	4.0E-42	AW818630.1	EST_HUMAN	RC1-ST0278-040400-018-h11 ST0278 Homo sapiens cDNA
11389	23995	37297	1.5	4.0E-42	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
1468	14213	26902	2.81	2.0E-42	BF376834.1	EST_HUMAN	RC0-TN0079-110900-024-g07 TN0079 Homo sapiens cDNA
2413	15134		2.92	2.0E-42	AW898344.1	EST_HUMAN	RC3-NN0070-270400-011-h10 NN0070 Homo sapiens cDNA
2425	15146	27879	2.22	2.0E-42	AW250059.1	EST_HUMAN	2819293.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819293 3'
5670	19465	31379	7.8	2.0E-42	AW955368.1	EST_HUMAN	EST367438 IMAGE resequences, MAGC Homo sapiens cDNA
5670	19465	31380	7.8	2.0E-42	AW955368.1	EST_HUMAN	EST367438 IMAGE resequences, MAGC Homo sapiens cDNA
6654	19416	32429	1.48	2.0E-42	AI052588.1	EST_HUMAN	ow83405.x1 Soares fetal liver spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1663417 3'
9741	22392	35596	1.32	2.0E-42	BE539818.1	EST_HUMAN	601061284F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447620 5'
9955	22603	35807	0.88	2.0E-42	P81649	SWISSPROT	RIBONUCLEASE K3 (RNASE K3)
9955	22603	35808	0.88	2.0E-42	P81649	SWISSPROT	RIBONUCLEASE K3 (RNASE K3)
11742	24334	37660	1.37	2.0E-42	AL163248.2	NT	Homo sapiens citrinosome 21 segment HS21C046
717	13490	28143	1.21	1.0E-42	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
1019	13779	28441	1.1	1.0E-42	AW295609.1	EST_HUMAN	UH-H-B11-eth-e-04-0-J1.st NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2721871 3'
1079	13837	28495	1.18	1.0E-42	AI251818.1	NT	Homo sapiens partial C9 gene for complement component C9, exon 1
1079	13837	28496	1.18	1.0E-42	AI251818.1	NT	Homo sapiens partial C9 gene for complement component C9, exon 1
							Homo sapiens NADH-ubiquinone oxidoreductase AGGG subunit precursor homolog mRNA, nuclear gene encoding mitochondrial protein, complete cds
1220	15563	28841	16.49	1.0E-42	AF087168.1	NT	Homo sapiens NADH-ubiquinone oxidoreductase AGGG subunit precursor homolog mRNA, nuclear gene encoding mitochondrial protein, complete cds
1220	15563	28842	16.49	1.0E-42	AF087168.1	NT	

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1696	14439	27137	1.13	1.0E-42	11423219	NT	Homo sapiens rec (LOC61201), mRNA
2546	15261	27998	1.63	1.0E-42	5174458	NT	Homo sapiens major histocompatibility complex, class II, DM alpha (HLA-DMA) mRNA
2684	15730	28380	10.26	1.0E-42	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
3695	16449	28088	2.6	1.0E-42	7682027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
3905	16855	28286	1.17	1.0E-42	AL163287.2	NT	Homo sapiens chromosome 21 segment HS21C087
4221	16962	28587	1.92	1.0E-42	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4554	17289	28918	0.75	1.0E-42	AW813617.1	EST_HUMAN	RC3-STO197-161089-012-e03 STO197 Homo sapiens cDNA
4697	17431	30082	1.88	1.0E-42	5803122	NT	Homo sapiens proteasome inhibitor (PI31), mRNA
4697	17431	30083	1.88	1.0E-42	5803122	NT	Homo sapiens proteasome inhibitor (PI31), mRNA
4728	17460	30097	6.02	1.0E-42	4506788	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
5044	17763	30378	1.08	1.0E-42	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
5044	17763	30378	1.08	1.0E-42	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
9886	22634	35844	4.03	9.0E-43	4757969	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
637	13416	26052	19.89	8.0E-43	AV736824.1	EST_HUMAN	AV736824 CB Homo sapiens cDNA clone CBLAKH08 5'
637	13416	26053	19.69	8.0E-43	AV736824.1	EST_HUMAN	AV736824 CB Homo sapiens cDNA clone CBLAKH08 5'
684	13459	26104	6.03	8.0E-43	8923276	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
684	13459	26105	6.03	8.0E-43	8923276	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
684	13459	26106	6.03	8.0E-43	8923276	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
5812	18408	31321	0.78	8.0E-43	H13982.1	EST_HUMAN	y08611.1 Soares placenta Nb2H1P Homo sapiens cDNA clone IMAGE:148172 5'
3632	16385	29025	6.42	7.0E-43	AW248442.1	EST_HUMAN	2822251.5prtm NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822251 5'
8667	21359		4.09	7.0E-43	A1836748.1	EST_HUMAN	w068601.x1 NC_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2466985 3' similar to TR-O15475
1321	14070		10.45	6.0E-43	AA491890.1	EST_HUMAN	O15475 UNNAMED HIERV-H PROTEIN ; contains LTR7.b1 LTR7 repetitive element ;
2600	15314		2.25	6.0E-43	AV708201.1	EST_HUMAN	ne72406.b1 NC_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:308803 similar to gb1.05085 80S
6219	18983	31969	2.24	6.0E-43		NT	RIBOSOMAL PROTEIN L30 (HUMAN);
6808	19469	32492	2.09	6.0E-43	AW488897.1	EST_HUMAN	AV708201 ADC Homo sapiens cDNA clone ADGACCC10 5'
9751	22402	35607	2.16	6.0E-43	AA185154.1	EST_HUMAN	Homo sapiens A TP-binding cassette, sub-family C (CFTR/MRP), member 3 (ABCC3), transcript variant MRP-3B, mRNA
11044	23714		2.55	6.0E-43	AL119158.1	EST_HUMAN	h030404.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910991 3' similar to contains MER1.S MER1 MER1 repetitive element ;
138	12953		2.84	5.0E-43	AL163213.2	NT	z35e06.t1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:665410 5' similar to TR:G528641
							G528641 DB1, COMPLETE CDS, contains element PTR7 repetitive element ;
							DKFZp761L1712.1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761L1712 5'
							Homo sapiens chromosome 21 segment HS21C013

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
490	13276	25909	4.55	5.0E-43	A382780.1	EST_HUMAN	EST196033 Testis Homo sapiens cDNA 5' end
2850	16618	28284	1.52	5.0E-43	A732578.1	EST_HUMAN	A732578 HTF Homo sapiens cDNA clone HITFANC06 5'
6213	19463	32484	1.17	5.0E-43	A1613509.1	EST_HUMAN	hw22a07.x1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2260452 3'
6802	19463	32484	0.72	5.0E-43	A1613508.1	EST_HUMAN	hw22a07.x1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2260452 3'
8778	21470		0.46	5.0E-43	H74277.1	EST_HUMAN	y449g12.1 Soares fetal liver spleen 1NFL3 Homo sapiens cDNA clone IMAGE:229510 5'
8248	21927	35098	0.47	5.0E-43	AA044450.1	EST_HUMAN	zk55a02.1 Soares pregnant uterus_NbHPU Homo sapiens cDNA clone IMAGE:486898 5' similar to gb:D28805 N-ACETYL LACTOSAMINE SYNTHASE (HUMAN);
9248	21927	35099	0.47	5.0E-43	AA044450.1	EST_HUMAN	gb:D28805 N-ACETYL LACTOSAMINE SYNTHASE (HUMAN);
9284	22018	35186	4.44	5.0E-43	AA465288.1	EST_HUMAN	aa33408.1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815055 5'
10297	22944	36158	2.31	5.0E-43	A1733244.1	EST_HUMAN	cc52c10.x3 NCI_CGAP_Lu6 Homo sapiens cDNA clone IMAGE:1589810 3' similar to TR:P80591 P80591 PV14 GENE.;
10335	22962	36201	1.21	5.0E-43	AL049110.1	EST_HUMAN	DKF7p434D0119.1 434 (synonym: hies3) Homo sapiens cDNA clone DKF7p434D0119
10683	23354	36593	5.29	5.0E-43	AW863007.1	EST_HUMAN	MR2.SN0007-280400-004-c02 SN0007 Homo sapiens cDNA
10891	23571	36822	1.84	5.0E-43	W29011.1	EST_HUMAN	55a4 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
952	16519	26383	5.9	4.0E-43	AF003528.1	NT	Homo sapiens X-linked arthritic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
6178	17987	30502	1.02	4.0E-43	AI050338.1	EST_HUMAN	cy47h03.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:1669013 3'
6276	19049	32026	0.7	4.0E-43	6996009	NT	Homo sapiens glycyl-tRNA synthetase (GARS), mRNA
7030	19722		2.32	4.0E-43	11416783	NT	Homo sapiens proteasome beta 8 (PCDH8), mRNA
8077	20771	33900	5.21	4.0E-43	AI244341.1	EST_HUMAN	q176a02.x1 NCI_CGAP_Ku3 Homo sapiens cDNA clone IMAGE:1665354 3' similar to contains MER10.43
8077	20771	33901	5.21	4.0E-43	AI244341.1	EST_HUMAN	MER10 repetitive element;
10213	22961	36074	1.23	4.0E-43	6006997	NT	q176a02.x1 NCI_CGAP_Kk43 Homo sapiens cDNA clone IMAGE:1665354 3' similar to contains MER10.
11275	23936	37228	1.68	4.0E-43	T77380.1	EST_HUMAN	MER10 repetitive element;
12030	24558		3.06	4.0E-43	R20850.1	EST_HUMAN	Homo sapiens zinc finger protein 161 (ZNF161), mRNA
1191	13943		4.59	3.0E-43	AF223391.1	NT	y472h10.1 Soares fetal liver spleen 1NFL3 Homo sapiens cDNA clone IMAGE:113827 5'
1690	14434	27130	2.07	3.0E-43	X97869.1	NT	y906b05.1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:31363 5' similar to contains MER10 repetitive element;
3558	16313	28960	1.31	3.0E-43	S69002.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
4258	16989	29629	1.04	3.0E-43	AA548154.1	EST_HUMAN	H.sapiens gene encoding La autoantigen
							AML-1-EVI-1=AML1-EVI-1 fusion protein (rearranged translocation) [human, leukemic cell line SKH1, mRNA Mutant, 5938 nt]
							nk55d08.s1 NCI_CGAP_P17 Homo sapiens cDNA clone IMAGE:1017419

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5803	18593	31518	0.72	3.0E-43	D34613.1	NT	Human TBXAS1 gene for thromboxane synthase, promoter region and exon 1
6284	19038	32013	2.24	3.0E-43	7305360	NT	Mus musculus obogelin (Obog), mRNA
6284	19038	32014	2.24	3.0E-43	7305360	NT	Mus musculus obogelin (Obog), mRNA
6828	19390	32404	4.29	3.0E-43	U65487.1	NT	Human ribosomal RNA upstream binding transcription factor (UBTF) gene, partial cds
8063	20757		8.38	3.0E-43	AA458824.1	EST_HUMAN	aa88f1.1 s1 Stratiogene fetal retina 837202 Homo sapiens cDNA clone IMAGE:838413 3' similar to contains
8719	21411	34554	1.87	3.0E-43	7661721	NT	THR12 THR repetitive element;
9784	22415	35622	0.56	3.0E-43	11420217	NT	Homo sapiens hypothetical protein (HSA011916), mRNA
178	12891		7.67	2.0E-43	A180784.1	EST_HUMAN	Homo sapiens similar to ornithine carbamoyltransferase (H. sapiens) (LOC63848), mRNA
6383	19152	32151	1.13	2.0E-43	BE222778.1	EST_HUMAN	q461c09.x1 Soares_testis_NHT-Homo sapiens cDNA clone IMAGE:1733988 3' similar to contains PTR7.3
6383	19152	32152	1.13	2.0E-43	BE222778.1	EST_HUMAN	PTR7 PTR7 repetitive element;
7178	19882	32833	1.32	2.0E-43	AW207390.1	EST_HUMAN	hu53a08.x1 NCL_CGAP_Bm41 Homo sapiens cDNA clone IMAGE:3173750 3' similar to contains element
8207	20801		6.59	2.0E-43	U43701.1	NT	MER40 repetitive element;
11166	23823		4.94	2.0E-43	T03007.1	EST_HUMAN	U4H-B11-af-a-09-0-U1.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2721712 3'
1845	14391	27080	2.94	1.0E-43	AF154836.1	NT	Human ribosomal protein L23a mRNA, complete cds
1845	14391	27081	2.94	1.0E-43	AF154836.1	NT	Human ribosomal protein L23a mRNA, complete cds
1700	14443	27142	1.57	1.0E-43	AL163284.2	NT	FB1G5 Fetal brain, Stratiogene Homo sapiens cDNA clone FB1G5 3' end similar to LINE-1
2727	15434	28170	3.86	1.0E-43	BF348283.1	EST_HUMAN	Homo sapiens Ras-like GTP-binding protein (RAB27A) gene, exons 1b and 2
5325	18128	30788	0.74	1.0E-43	4885544	NT	Homo sapiens Ras-like GTP-binding protein (RAB27A) gene, exons 1b and 2
6514	19278	32280	8.45	1.0E-43	4507168	NT	Homo sapiens chromosome 21 segment HS21C084
6514	19278	32281	8.45	1.0E-43	4507168	NT	Homo sapiens chromosome 21 segment HS21C084
6870	17947	30542	1.38	1.0E-43	R19751.1	EST_HUMAN	Homo sapiens pyruvate dehydrogenase kinase, isoform 3 (PDK3) mRNA
7833	20528	33655	1.13	1.0E-43	AF175285.1	NT	Homo sapiens Sp4 transcription factor (SP4) mRNA
7865	20660		4.03	1.0E-43	AF198480.1	NT	Homo sapiens Sp4 transcription factor (SP4) mRNA
8736	21428	34574	25.49	1.0E-43	AW963676.1	EST_HUMAN	yg40e01.J1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:34732 5' similar to
10189	22837	36052	0.66	1.0E-43	AW963229.1	EST_HUMAN	SP-BD38_MOUSE P28856 BRAIN PROTEIN DN38 ;
10884	23564	36812	8.11	1.0E-43	A1884861.1	EST_HUMAN	Homo sapiens vacuolar sorting protein 35 (VPS35) mRNA, complete cds
11338	24028	37332	4.78	1.0E-43	AL137984.1	EST_HUMAN	Homo sapiens vacuolar sorting protein 35 (VPS35) mRNA, complete cds
11975	24520		3.04	1.0E-43	AL137984.1	EST_HUMAN	Homo sapiens vacuolar sorting protein 35 (VPS35) mRNA, complete cds
12253	24699	31078	1.89	1.0E-43	A1675416.1	EST_HUMAN	Homo sapiens vacuolar sorting protein 35 (VPS35) mRNA, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12469	24835	31032	3.41	8.0E-44	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
870	13639	26309	6.23	8.0E-44	A1222885.1	EST_HUMAN	q123g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1845552 3'
870	13639	26310	6.23	8.0E-44	A1222885.1	EST_HUMAN	q123g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1845552 3'
8437	21129	34266	2.67	8.0E-44	X94354.1	NT	H. sapiens DNA for Core cGMP-PDE gene
10236	22894	36097	0.47	8.0E-44	11423497	NT	Homo sapiens small proline-rich protein 2C (SPRR2C), mRNA
10236	22894	36098	0.47	8.0E-44	11423497	NT	Homo sapiens small proline-rich protein 2C (SPRR2C), mRNA
11117	23787	37064	3.78	8.0E-44	Y10498.2	NT	Homo sapiens mRNA for thymidine kinase, partial
11688	24283	37608	1.36	8.0E-44	L29138.1	NT	Homo sapiens myosin mRNA, partial cds
12207	24673	31073	4.09	8.0E-44	11627389	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide F (POLR2F), mRNA
12248	25008	30976	1.38	8.0E-44	11418086	NT	Homo sapiens putative nuclear protein (HRHFB2122), mRNA
12589	25196	30908	2.55	8.0E-44	11418099	NT	Homo sapiens protein kinase C, alpha binding protein (PRKCABP), mRNA
644	13423		0.69	7.0E-44	R06035.1	EST_HUMAN	ye88e01.r1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:124820 5'
2228	14956	27696	1.08	7.0E-44	5031888	NT	Homo sapiens LIM domain-containing preferred translocation partner in lipoma (LPP) mRNA
2668	15732	28381	2.58	7.0E-44	AF048728.1	NT	Homo sapiens minisatellite ms32 repeat region
2668	15732	28382	2.58	7.0E-44	AF048728.1	NT	Homo sapiens minisatellite ms32 repeat region
3943	16594	28231	2.54	7.0E-44	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4217	16958	28581	1.12	7.0E-44	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA
4217	16958	28582	1.12	7.0E-44	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA
5142	17890	30476	1.01	7.0E-44	4505646	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
8085	20778	33908	2.28	7.0E-44	AU159839.1	EST_HUMAN	AU159839 Y78A1 Homo sapiens cDNA clone Y78AA1000488 3'
6012	18793	31756	0.94	8.0E-44	Z20948.1	EST_HUMAN	HSAAADDEVU P, Human fetal Brain Whole tissue Homo sapiens cDNA
11781	24372	37702	1.78	6.0E-44	AW954050.1	EST_HUMAN	EST388120 IMAGE resequences, MAGC Homo sapiens cDNA
286	13102		3.3	5.0E-44	AJ288880.1	NT	Homo sapiens KIAA0851 gene (partial), X13 gene and LZTFL1 gene
323	13124		2.72	5.0E-44	AJ288880.1	NT	Homo sapiens KIAA0851 gene (partial), X13 gene and LZTFL1 gene
7788	20483	33807	4.96	5.0E-44	AJ568523.1	EST_HUMAN	tn40d02.x1 NCI_CGAP_Bim26 Homo sapiens cDNA clone IMAGE:2170083 3' similar to contains OFR.H
9284	22038		2.34	5.0E-44	AU124571.1	EST_HUMAN	OFR OFR repetitive element
3408	16167	28816	3.76	4.0E-44	AL163303.2	NT	AU124571 NT2RM4 Homo sapiens cDNA clone NT2RM4000218 5'
7370	20050	33131	0.68	4.0E-44	BE883178.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21G103
8169	20863	33995	0.76	4.0E-44	L21948.1	NT	601508601F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910152 5'
8777	21469		0.51	4.0E-44	BE176818.1	EST_HUMAN	Human fibrillin (FBN1) locus polymorphism
11202	23868	37153	5.38	4.0E-44	U80878.1	NT	RC3-HT0585-010400-023-d08 HT0585 Homo sapiens cDNA
3094	15856	28500	5.77	3.0E-44	AA168851.1	EST_HUMAN	Homo sapiens carboxyl terminal LIM domain protein (CLIM1) mRNA, complete cds
							zp18b05.r1 Strabagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:608777 5'

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3870	16820	29280	1.37	3.0E-44	AA337234.1	EST_HUMAN	EST42289 Endometrial tumor Homo sapiens cDNA 5' end similar to alpha-1-antitrypsinase F
9419	22097	35269	0.55	3.0E-44	AF005273.1	NT	Sus scrofa domestica submaxillary apomucin mRNA, complete cds
1027	13787	26446	2.84	2.0E-44	4826685	NT	Homo sapiens DEADH (Asp-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA
1027	13787	26447	2.84	2.0E-44	4826685	NT	Homo sapiens DEADH (Asp-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA
1185	13837	26602	3.36	2.0E-44	5803200	NT	Homo sapiens transmembrane trafficking protein (TMP21), mRNA
1185	13837	26603	3.36	2.0E-44	5803200	NT	Homo sapiens transmembrane trafficking protein (TMP21), mRNA
1289	14038	26711	4.06	2.0E-44	AF133588.1	NT	Homo sapiens RAB36 (RAB36) mRNA, complete cds
1347	14095	26770	1.3	2.0E-44	BE465325.1	EST_HUMAN	hw14g08x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182838 3' similar to SW:OXYB_HUMAN
2147	14877	27612	2.22	2.0E-44	AF070651.1	NT	P22059 OXYSTEROL-BINDING PROTEIN ;
2618	15327		1.31	2.0E-44	5901833	NT	Homo sapiens tissue-type bone marrow zinc finger protein 4 mRNA, complete cds
3483	16219	28873	1.13	2.0E-44	D87676.1	NT	Homo sapiens adaptor-related protein complex 4, sigma 1 subunit (CLAPS4), mRNA
4531	17266	29869	1.54	2.0E-44	AW694379.1	EST_HUMAN	Homo sapiens DNA for amyloid precursor protein, complete cds
6004	18785	31747	1.87	2.0E-44	11449901	NT	PM4-SN0016-120500-003-a04 SN0016 Homo sapiens cDNA
							Homo sapiens chemokine (C-C motif) receptor 9 (CCR9), mRNA
6788	17827	30582	3.31	2.0E-44	AF038988.1	NT	Homo sapiens general transcription factor 2-1 (GTF2) mRNA, alternatively spliced product, complete cds
7313	19998	33074	4.57	2.0E-44	11419226	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
7313	19998	33075	4.57	2.0E-44	11419226	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
8327	21020	34155	0.87	2.0E-44	7706370	NT	Homo sapiens vesicle transport-related protein (KIAA0917), mRNA
8327	21020	34156	0.67	2.0E-44	7706370	NT	Homo sapiens vesicle transport-related protein (KIAA0917), mRNA
8517	21209	34352	1.58	2.0E-44	BE389068.1	EST_HUMAN	601286914F-1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613586 5'
							TCBAP1E2785 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TCBA Homo sapiens cDNA clone TCBAP2795
11883	24456		1.82	2.0E-44	BE244802.1	EST_HUMAN	Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), mRNA
12760	25020		1.4	2.0E-44	11628283	NT	Homo sapiens MissheperNIK-related kinase (MINIK), mRNA
51	12880	25507	2.43	1.0E-44	7657334	NT	Homo sapiens MissheperNIK-related kinase (MINIK), mRNA
51	12880	25508	2.43	1.0E-44	7657334	NT	Homo sapiens MissheperNIK-related kinase (MINIK), mRNA
668	13347	25975	2.44	1.0E-44	AW853182.1	EST_HUMAN	RC1-CT0249-030300-028-h12 CT0249 Homo sapiens cDNA
1175	13928		1.9	1.0E-44	AW994803.1	EST_HUMAN	RC1-BN0039-103000-012-b01 BN0039 Homo sapiens cDNA
1567	14314		5.78	1.0E-44	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
							zw53d02J1 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773763 5' similar to contains THR13 THR repetitive element ;
2221	14949	27687	3.74	1.0E-44	AA434554.1	EST_HUMAN	zw53d02J1 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773763 5' similar to contains THR13 THR repetitive element ;
2221	14949	27688	3.74	1.0E-44	AA434554.1	EST_HUMAN	zw53d02J1 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773763 5' similar to contains THR13 THR repetitive element ;

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2280	15590	27746	0.96	1.0E-44	AA388099.1	EST_HUMAN	z888g11.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:729476 5'
2763	15488	28211	1.44	1.0E-44	AF196778.1	NT	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds, and L-type calcium channel α
3712	16466		3.73	1.0E-44	AA455869.1	EST_HUMAN	aa01c09.s1 Soares_NHTMPu_S1 Homo sapiens cDNA clone IMAGE:811884 3'
5048	17767	30385	1.04	1.0E-44	AJ130755.1	NT	Homo sapiens alpha satellite DNA, M1 monomer type
5048	17767	30396	1.04	1.0E-44	AJ130755.1	NT	Homo sapiens alpha satellite DNA, M1 monomer type
8163	20857	33988	0.98	1.0E-44	AW867073.1	EST_HUMAN	EST1378147 MAGE resequences, MAGJ Homo sapiens cDNA
8163	20857	33989	0.98	1.0E-44	AW867073.1	EST_HUMAN	EST1378147 MAGE resequences, MAGJ Homo sapiens cDNA
8544	21238	34380	0.98	1.0E-44	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C008
8924	21615	34769	0.69	1.0E-44	AI537163.1	EST_HUMAN	qs88g07.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:20096028 3'
10936	23618		4.04	1.0E-44	AV174608.1	EST_HUMAN	AV174608 DCB Homo sapiens cDNA clone DCBBYE03 5'
11516	24116	37427	3.82	1.0E-44	10082884	NT	Homo sapiens Sushi domain (SCR repeat) containing (BK65Ag.2), mRNA
11583	24182	37496	3.17	1.0E-44	AW846987.1	EST_HUMAN	RC1-CT0108-150989-011-C08 CT0198 Homo sapiens cDNA
11583	24182	37497	3.17	1.0E-44	AW846987.1	EST_HUMAN	RC1-CT0198-150989-011-C08 CT0198 Homo sapiens cDNA
4539	17274	28906	1.38	9.0E-45	8822391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
4539	17274	28907	1.38	9.0E-45	8822391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
6582	19317	32323	1.31	9.0E-45	AB023212.1	NT	Homo sapiens mRNA for KIAA0986 protein, partial cds
2527	15243	27882	3.12	8.0E-45	5174718	NT	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA
5023	17744	30355	6.41	8.0E-45	5174718	NT	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA
6414	19182	32181	0.68	8.0E-45	AW892763.1	EST_HUMAN	CM0-NIN005-130300-283-b09 NN0005 Homo sapiens cDNA
8006	20701	33830	0.91	8.0E-45	AA377865.1	EST_HUMAN	ESTB0893 Synovial sarcoma Homo sapiens cDNA 5' end
1545	14291		1.01	6.0E-45	AI675425.1	EST_HUMAN	wb89c06.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2313802 3' similar to contains L1.H L1 repetitive element
3960	16709		4.09	6.0E-45	AW157570.1	EST_HUMAN	au83h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782809 3' similar to SW-R13A_HUMAN P40429 60S RIBOSOMAL PROTEIN L19A
12555	25378		1.65	6.0E-45	11418213	NT	Homo sapiens ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1), mRNA
872	19641		1.03	5.0E-45	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
1985	14731	27453	3.65	5.0E-45	BF333627.1	EST_HUMAN	CM4-CN0044-180200-515-401 CN0044 Homo sapiens cDNA
3204	15967	28621	1.79	5.0E-45	AI523766.1	EST_HUMAN	tg94f07.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2116453 3' similar to SW-PAX1_MOUSE
6425	18224	30935	8.76	5.0E-45	AA397781.1	EST_HUMAN	P09084 PAIRED BOX PROTEIN PAX-1
5929	18713	31669	1.31	5.0E-45	Y18933.1	NT	z172a03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727877 3' similar to contains element TAR1 repetitive element
							Homo sapiens MCP-1 gene and enhancer region

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Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5929	18713	31670	1.31	5.0E-45	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5974	18756	31717	0.79	5.0E-45	AB022318.1	NT	Homo sapiens mRNA for inducible nitric oxide synthase, complete cds
5974	18756	31718	0.79	5.0E-45	AB022318.1	NT	Homo sapiens mRNA for inducible nitric oxide synthase, complete cds
6096	18874	31842	1.02	5.0E-45	11498268	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
6096	18874	31843	1.02	5.0E-45	11498268	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
8174	20868	34000	0.73	5.0E-45	11418704	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
8939	21630	34773	1.95	5.0E-45	4759223	NT	Homo sapiens programmed cell death 5 (PDCD5), mRNA
11897	24292	37617	2.59	5.0E-45	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
1121	13877	26536	9.58	4.0E-45	X95826.1	NT	H. sapiens ART4 gene
2289	15014	27750	2.42	4.0E-45	BE265622.1	EST_HUMAN	601194440F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3538425 5'
8855	21548		0.82	4.0E-45	AA228220.1	EST_HUMAN	nc26807.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:1009284 similar to contains element L1
4068	16085		1.35	3.0E-45	TT1480.1	EST_HUMAN	repetitive element:
6142	18820	31860	1.36	3.0E-45	6753651	NT	y35507.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:110245 5'
6142	18920	31891	1.36	3.0E-45	6753651	NT	Mus musculus dynein, exon, heavy chain 11 (Dnahc11), mRNA
8350	21043		1.4	3.0E-45	AV723978.1	EST_HUMAN	Mus musculus dynein, exon, heavy chain 11 (Dnahc11), mRNA
8690	21382	34526	3.74	3.0E-45	4758451	NT	AV723978 HTB Homo sapiens cDNA clone HTBAAG01 5'
10206	22854	36068	13.43	3.0E-45	AL163227.2	NT	Homo sapiens golgi autoantigen, golgin subfamily a, 2 (GOLGA2) mRNA
10206	22854	36069	13.43	3.0E-45	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
12670	25314		2.35	3.0E-45	X98211.1	NT	Homo sapiens chromosome 21 segment HS21C027
2508	15223		2.21	2.0E-45	AL163218.2	NT	H. sapiens DNA for endogenous retroviral like element
3029	15785	28441	1.22	2.0E-45	AJ243213.1	NT	Homo sapiens chromosome 21 segment HS21C018
6429	19197	32194	5.15	2.0E-45	LD1695.1	NT	Homo sapiens partial 6-HT4 receptor gene, exons 2 to 5
7510	20181	33274	1.22	2.0E-45	BE782184.1	EST_HUMAN	Human eosinophil Charcot-Leyden crystal (CLC) protein (lysophospholipase) gene, promoter and exon 1
8314	21007	34145	0.78	2.0E-45	AW834834.1	EST_HUMAN	601467793F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870838 5'
9485	22138	35318	0.48	2.0E-45	A636796.1	EST_HUMAN	RC0-LT0001-150200-032-d11 LT0001 Homo sapiens cDNA
10705	25130	36633	18.28	2.0E-45	BE834350.1	EST_HUMAN	ts55a01.x1 NCI_CGAP_K148 Homo sapiens cDNA clone IMAGE:2232552 3'
11129	23797	37073	4.16	2.0E-45	AA458770.1	EST_HUMAN	MR0-HT0923-190800-201-a02 HT0923 Homo sapiens cDNA
11488	24089	37400	1.75	2.0E-45	AW270280.1	EST_HUMAN	aa87f12.11 Stratiogene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838310 5' similar to
11488	24089	37401	1.75	2.0E-45	AW270280.1	EST_HUMAN	TR-G1144599 G1144599 R-SLY1:
12711	24987		3.93	2.0E-45	11418157	NT	xp72a03.x1 NCI_CGAP_Ov40 Homo sapiens cDNA clone IMAGE:2745868 3'
120	13185		-1.6	1.0E-45	BE369855.1	EST_HUMAN	xp72a03.x1 NCI_CGAP_Ov40 Homo sapiens cDNA clone IMAGE:2745868 3'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
400	13185		2.17	1.0E-45	BE389855.1	EST_HUMAN	601284360F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608183 5'
490	13245	25887	1.38	1.0E-45	4508412	NT	Homo sapiens RAP1A, member of RAS oncogene family (RAP1A), mRNA
1151	13908	28569	1.79	1.0E-45	7857280	NT	Homo sapiens Langerhans cell specific c-type lectin (LANGERIN), mRNA
3101	15866	28507	7.42	1.0E-45	U32169.1	NT	Human pro- $\alpha 2$ chain of collagen type XI (COL11A2) gene, complete cds
3483	16240	28697	1.38	1.0E-45	8858558	NT	Homo sapiens chromosome 21 open reading frame 1 (C21orf4), mRNA
3560	16315	28982	1.19	1.0E-45	AB046811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
4442	17178	20804	5.01	1.0E-45	BE308633.1	EST_HUMAN	601289718F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3619803 5'
4677	17411		1.04	1.0E-45	H57443.1	EST_HUMAN	yo5802.t1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:204363 5'
7930	20826	33782	0.77	1.0E-45		NT	Homo sapiens peroxisomal biogenesis factor 14 (PEX14), mRNA
7930	20825	33783	0.77	1.0E-45	11422236	NT	Homo sapiens peroxisomal biogenesis factor 14 (PEX14), mRNA
8505	21187	34341	0.96	1.0E-45	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
9019	21709	34861	5.08	1.0E-45	BE887843.1	EST_HUMAN	601511228F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912535 5'
9422	22100	35272	1.22	1.0E-45	AB002297.1	NT	Human mRNA for KIAA0298 gene, partial cds
11734	24327	37681	1.33	1.0E-45	7019570	NT	Homo sapiens alpha-catenin-like protein (VR22), mRNA
12087	24592	31126	8.93	1.0E-45	11418098	NT	Homo sapiens protein kinase C, alpha binding protein (PRKCABP), mRNA
12263	24708		11.18	1.0E-45	11526291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
12369	24711		5.28	1.0E-45	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12680	24969	30991	2.6	1.0E-46	11418167	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1I subunit (CACNA1I), mRNA
8127	20821	33958	1.7	9.0E-46	9810293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
8532	21224		5.86	9.0E-46	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C008
10378	23024	36239	11.23	9.0E-46	AW246864.1	EST_HUMAN	2822448.EpRime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822449 5'
							t32208.x1 NCJ CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2132189 3' similar to gb:J00314_mae2
2443	15182	27899	13.63	8.0E-46	AK433261.1	EST_HUMAN	TUBULIN BETA-1 CHAIN (HUMAN);
							t32208.x1 NCJ CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2132189 3' similar to gb:J00314_mae2
2443	15182	27900	13.53	8.0E-46	AK433261.1	EST_HUMAN	TUBULIN BETA-1 CHAIN (HUMAN);
7953	20648		5.89	8.0E-46	BE167244.1	EST_HUMAN	RC3-PT0506-280200-012-012 HT0506 Homo sapiens cDNA
2232	14980	27700	1.03	7.0E-46	U46007.1	NT	Rattus norvegicus esph mRNA, complete cds
4541	17278		3.98	7.0E-46	BE386165.1	EST_HUMAN	60127282F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618119 5'
4755	17487		1.33	7.0E-46	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-F10 BT0310 Homo sapiens cDNA
5051	18733	31692	4.01	7.0E-46	8922708	NT	Homo sapiens hypothetical protein FLJ10847 (FLJ10847), mRNA
6402	19171	32170	1.14	7.0E-46	BF105845.1	EST_HUMAN	601822835F1 NIH_MGC_77 Homo sapiens cDNA clone IMAGE:4042736 5'
							wm3108.x1 NCJ CGAP_UH4 Homo sapiens cDNA clone IMAGE:2437576 3' similar to contains MER19.12
2759	15484	28207	3.99	6.0E-46	AI884391.1	EST_HUMAN	MER19 repetitive element;

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2759	15464	28208	3.99	6.0E-46	A1884381.1	EST_HUMAN	wns31f08.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437575 3' similar to contains MER19.12 MER19 repetitive element;
6038	18818	31779	10.94	6.0E-46	A635448.1	EST_HUMAN	ts58f10.x1 NCI_CGAP_Kd8 Homo sapiens cDNA clone IMAGE:2232835 3' similar to TR:O60363 O60363 SA GENE;
7116	18804	32868	0.72	6.0E-46	AW513244.1	EST_HUMAN	xo42a04.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2706654 3' similar to gb:U08089 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
11304	23175		2.04	6.0E-46	BE784971.1	EST_HUMAN	601478409F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3880995 5'
189	13012		8.9	5.0E-46	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
3519	16275	28929	1.07	5.0E-46	BE677184.1	EST_HUMAN	7d81g01.x1 Lupski_dorsal_root_ganglion Homo sapiens cDNA clone IMAGE:3278408 3'
3519	16275	28930	1.07	5.0E-46	BE677184.1	EST_HUMAN	7d81g01.x1 Lupski_dorsal_root_ganglion Homo sapiens cDNA clone IMAGE:3278408 3'
6038	18398	32413	1.86	6.0E-46	BF580442.1	EST_HUMAN	tra33807.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:3258757 3' similar to TR:O76202 O76202 HOMOLOG OF RAT KIDNEY-SPECIFIC;
6842	19542	32570	4.29	5.0E-46	BF347228.1	EST_HUMAN	602021184F1 NCI_CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4156670 5'
6935	19687	32736	0.62	5.0E-46	AW582283.1	EST_HUMAN	QV4-ST0212-120100-075-09 ST0212 Homo sapiens cDNA
8515	22168	35350	0.47	5.0E-46	AA398381.1	EST_HUMAN	z62c08.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726928 3'
628	13405		1.4	4.0E-46	AA601143.1	EST_HUMAN	nf54a09.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb:X53741_maf1 FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
1689	14442	27140	8.88	4.0E-46	AW770544.1	EST_HUMAN	H88c03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3008836 3' similar to gb:X14008_maf1 LYSOZYME C PRECURSOR (HUMAN);contains element MER37 repetitive element;
1689	14442	27141	8.88	4.0E-46	AW770544.1	EST_HUMAN	H88c03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3008836 3' similar to gb:X14008_maf1 LYSOZYME C PRECURSOR (HUMAN);contains element MER37 repetitive element;
2743	15449	28188	2.62	4.0E-46	MT18048.1	NT	Human endogenous retrovirus RTVL-H2
4384	17121	28763	1.04	4.0E-46	AB014522.1	NT	Homo sapiens mRNA for KIAA0822 protein, partial cds
4394	17121	28764	1.04	4.0E-46	AB014522.1	NT	Homo sapiens mRNA for KIAA0822 protein, partial cds
6350	18153	30834	2.43	4.0E-46	M98852.1	NT	Human Ig germline gamma-3 heavy-chain gene V region, partial cds
6350	18153	30835	2.43	4.0E-46	M98852.1	NT	Human Ig germline gamma-3 heavy-chain gene V region, partial cds
12513	24863	31014	2.71	4.0E-46	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
2155	14885	27618	0.9	3.0E-46	5453520	NT	Homo sapiens solute carrier family 35 (CMP-sialic acid transporter), member 1 (SLC35A1), mRNA
2429	15150	27894	0.95	3.0E-46	AF160212.1	NT	Homo sapiens VAMP-associated 33 kDa protein mRNA, complete cds
4392	17100	28735	0.79	3.0E-46	4506376	NT	Homo sapiens mitogen-activated protein kinase kinase 3 (MAP4K3), mRNA
4724	17458	30091	1.2	3.0E-46	Z73680.1	NT	H. sapiens Ig lambda dba light chain variable region gene (7c.11.2) germline; Ig-Lambda dba; VLambda

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4724	17456	30082	1.2	3.0E-46	Z73680.1	NT	H.sapiens Ig lambda light chain variable region gene (7c.11.2) germline, Ig-Light-Lambda, VLambda
8947	21338	34483	7.59	3.0E-46	A1831462.1	EST_HUMAN	w49c04.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2
11584	24163	37474	2.19	3.0E-46	D31765.1	NT	THR repetitive element ;
817	13598	28255	7.64	2.0E-46	AA468646.1	EST_HUMAN	Human mRNA for KIAA0061 gene, partial cds
1554	14301		1.66	2.0E-46	AA578246.1	EST_HUMAN	ne08a08.s1 NCI_CGAP_Co8 Homo sapiens cDNA clone IMAGE:880408 3' similar to contains THR.b2 THR
1637	14383	27070	3.43	2.0E-46	U78027.1	NT	repetitive element ;
4917	17645	30258	1.2	2.0E-46	AA369286.1	EST_HUMAN	z27a11.s1 Soares fetal liver spleen 1NFLS ST Homo sapiens cDNA clone IMAGE:431896 3'
7384	20064	33142	7.67	2.0E-46	BE869151.1	EST_HUMAN	Homo sapiens Brubin's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein
7968	20663		1.46	2.0E-46	BE869151.1	EST_HUMAN	(L44L) and FTP3 (FTP3) genes, complete cds
12257	25178		1.5	2.0E-46	H48391.1	EST_HUMAN	z159a02.1 Soares testis NHT Homo sapiens cDNA clone IMAGE:726850 5' similar to SW:RSP1_MOUSE
12575	25170	30802	3.38	2.0E-46	AW277214.1	EST_HUMAN	Q01730 RSP-1 PROTEIN ;
1211	13961	26628	7.67	1.0E-46	4502694	NT	Mus musculus sperm tail associated protein (Stap), mRNA
1566	14313	26999	1.23	1.0E-46	7682177	NT	601445137F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849287 5'
1566	14313	27000	1.23	1.0E-46	7682177	NT	y32a01.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:206877 5'
2279	15005	27745	3.44	1.0E-46	AW978516.1	EST_HUMAN	xq78h03.x1 NCI_CGAP_Lu34 Homo sapiens cDNA clone IMAGE:2759789 3'
2399	15120	27857	3.06	1.0E-46	H97330.1	EST_HUMAN	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
3243	18005	28854	4.55	1.0E-46	AA631912.1	EST_HUMAN	Homo sapiens KIAA0555 gene product (KIAA0555), mRNA
4818	17649		3.17	1.0E-46	AB023197.1	NT	Homo sapiens KIAA0555 gene product (KIAA0555), mRNA
5613	18409	31322	6.88	1.0E-46	BF194707.1	EST_HUMAN	EST390825 IMAGE resequences, MAGP Homo sapiens cDNA
5888	25080	31617	6.14	1.0E-46	8923762	NT	EST48b095 WATM1 Homo sapiens cDNA clone 48b095
5888	25080	31618	6.14	1.0E-46	8923762	NT	np78b02.s1 NCI_CGAP_Py2 Homo sapiens cDNA clone IMAGE:1132395 similar to gb:U76717 H.sapiens
10770	18409	31322	5.27	1.0E-46	BF194707.1	EST_HUMAN	MT-1l mRNA. (HUMAN);
11747	24338	37665	1.53	1.0E-46	AW023178.1	EST_HUMAN	Homo sapiens mRNA for KIAA0380 protein, partial cds
11747	24338	37666	1.53	1.0E-46	AW023178.1	EST_HUMAN	Homo sapiens mRNA for KIAA0380 protein, partial cds
12044	24564	31115	2.28	1.0E-46	BF631102.1	EST_HUMAN	7c2b01.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3843705 3'
12044	24564	31116	2.28	1.0E-46	BF631102.1	EST_HUMAN	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA
12778	25032		2.37	1.0E-46	AV716377.1	EST_HUMAN	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA
750	13522		6.18	9.0E-47	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2

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4879	17606	30229	3.02	9.0E-47	AW770928.1	EST_HUMAN	H83a04.x1 NCL CGAP_L124 Homo sapiens cDNA clone IMAGE:3008534 3' similar to TR:O75703 O75703
6284	19057	32037	0.6	9.0E-47	11425439	NT	HYPOTHETICAL 12.4 KD PROTEIN. ;
12631	26270	30725	2	9.0E-47	11417968	NT	Homo sapiens zinc finger protein ZNF288 (ZNF288), mRNA
1801	14541	27252	6.88	8.0E-47	Y18536.1	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
1801	14541	27253	6.88	8.0E-47	Y18536.1	NT	Homo sapiens HLA-C gene, exon 5, individual 19323
2722	15429	28167	1.04	8.0E-47	6453955	NT	Homo sapiens HLA-C gene, exon 5, individual 19323
3024	15780	28438	1.89	8.0E-47	AJ228043.1	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B59), epsilon isoform (PPP2R5E) mRNA
3613	16366	29009	0.68	8.0E-47	AB041926.1	NT	Homo sapiens mRNA for GCK family kinase MINK-2, complete cds
3613	16366	29010	0.68	8.0E-47	AB041926.1	NT	Homo sapiens mRNA for GCK family kinase MINK-2, complete cds
12604	26169		1.38	7.0E-47	AV683284.1	EST_HUMAN	AV683284 GKC Homo sapiens cDNA clone GKCA5H11 5'
2550	15265	28000	1.68	8.0E-47	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C046
8582	21284	34423	0.49	6.0E-47	U77054.1	EST_HUMAN	HSU77054 Human Homo sapiens cDNA clone N7
9176	21848	35012	6.78	6.0E-47	AB695189.1	EST_HUMAN	128102.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2266559 3'
9612	22265	35450	0.68	6.0E-47	AB042824.1	NT	Homo sapiens RECQL5 beta mRNA for DNA helicase recQ5 beta, complete cds
9612	22265	35451	0.68	6.0E-47	AB042824.1	NT	Homo sapiens RECQL5 beta mRNA for DNA helicase recQ5 beta, complete cds
6482	19249	32249	6.67	5.0E-47	11423972	NT	Homo sapiens CDC37 (cell division cycle 37, S. cerevisiae, homolog) (CDC37), mRNA
10698	23387		5.27	6.0E-47	M78590.1	EST_HUMAN	Homo sapiens CDC37 (cell division cycle 37, S. cerevisiae, homolog) (CDC37), mRNA
1379	14126	26801	3.29	4.0E-47	4557556	NT	EST00739 Fetal brain, Strategene (cat#636206) Homo sapiens cDNA clone HFBCE07
6733	19567	32599	1.9	4.0E-47	BE938898.1	EST_HUMAN	Homo sapiens E1A binding protein p300 (EP300) mRNA
8379	21072	34210	2.42	4.0E-47	BE916483.1	EST_HUMAN	MR4-TN0108-280800-201-d04 TN0108 Homo sapiens cDNA
8379	21072	34211	2.42	4.0E-47	BE916483.1	EST_HUMAN	601280486F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622437 5'
8516	21208	34351	0.61	4.0E-47	AW963777.1	EST_HUMAN	601280486F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622437 5'
11635	24232						RC3-BN0034-220300-015-405 BN0034 Homo sapiens cDNA
631	13315	25950	2.83	4.0E-47	AW515509.1	EST_HUMAN	xx68607.x1 NCL CGAP_Lyn12 Homo sapiens cDNA clone IMAGE:2848597 3' similar to SW:INT8_MOUSE
531	13315	25951	2.06	3.0E-47	BE907694.1	EST_HUMAN	Q64252 VIRAL INTEGRATION SITE PROTEIN INT-8. [1];
789	13571	26232	6.45	3.0E-47	N57483.1	EST_HUMAN	601497639F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899721 5'
924	13691	26355	10.25	3.0E-47	AL163284.2	NT	601497639F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899721 5'
3296	16058	28707	0.79	3.0E-47	4504116	NT	601497639F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899721 5'
3948	16698		5.77	3.0E-47	U93181.1	NT	y54b04.s1 Soares_multiple sclerosis_2NBMSP Homo sapiens cDNA clone IMAGE:277327 3'
4329	17068	28698	1.32	3.0E-47	M12959.1	NT	Homo sapiens chromosome 21 segment HS21C084
5922	18707	31659	5.41	3.0E-47	AW409800.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
							Homo sapiens nuclear dual-specificity phosphatase (SBF1) mRNA, partial cds
							Human T-cell receptor alpha-chain mRNA from JM cell line, complete cds
							ULHF-BMD-adb-4-07-0-UJ.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063205 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5922	18707	31660	5.41	3.0E-47	AW408800.1	EST_HUMAN	UIHF-BM0-adv-d-07-0-UIr1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063205 5'
6469	18236		1.76	3.0E-47	A1222413.1	EST_HUMAN	q04e07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843718 3'
8732	21424	34569	0.71	3.0E-47	AW963786.1	EST_HUMAN	EST375869 MAGC resequences, MAGH Homo sapiens cDNA
8732	21424	34570	0.71	3.0E-47	AW963786.1	EST_HUMAN	EST375869 MAGC resequences, MAGH Homo sapiens cDNA
143	12958	25600	1.61	2.0E-47	4505318	NT	Homo sapiens myosin phosphatase, target subunit 2 (MYPT2), mRNA
947	13713	26377	2.69	2.0E-47	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21 C009
947	13713	26378	2.69	2.0E-47	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21 C009
1560	14307		0.98	2.0E-47	A066279.1	EST_HUMAN	wq96b02.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2478851 3'
1588	14334	27022	1.75	2.0E-47	7682109	NT	Homo sapiens KIAA0428 gene product (KIAA0428), mRNA
1673	14418	27111	3.41	2.0E-47	AA524514.1	EST_HUMAN	ng43h12.s1 NCI_CGAP_C63 Homo sapiens cDNA clone IMAGE:937607 3'
4313	17052	29577	2	2.0E-47	4504868	NT	Homo sapiens ring finger protein (C3HC4 type) 8 (RNF8), mRNA
4351	17090	29722	1.5	2.0E-47	AA569592.1	EST_HUMAN	nf23g07.s1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:914652
4351	17090	29723	1.5	2.0E-47	AA569592.1	EST_HUMAN	nf23g07.s1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:914652
4471	17206	29832	1.66	2.0E-47	5174648	NT	Homo sapiens Ras/Raf activation domain binding protein-related (RAB-R) mRNA
4761	17493	30121	1.3	2.0E-47	AW985168.1	EST_HUMAN	EST377239 MAGC resequences, MAGI Homo sapiens cDNA
5898	18490	31411	1.12	2.0E-47	AF073921.1	NT	Homo sapiens regulator of G-protein signaling 6 variant form (RGS6) mRNA, complete cds
5897	18673	31615	1.23	2.0E-47	BE778475.1	EST_HUMAN	607463932F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3867487 5'
5897	18673	31616	1.23	2.0E-47	BE778475.1	EST_HUMAN	607463932F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3867487 5'
7998	25116		1.43	2.0E-47	L09731.1	NT	Homo sapiens 5-hydroxytryptamine 1D receptor pseudogene with an Alu repeat insertion
7984	20559	33686	1.92	2.0E-47	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
7984	20559	33688	1.92	2.0E-47	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
8918	21310	34452	1.97	2.0E-47	AF071771.1	NT	Homo sapiens SPH-binding factor mRNA, partial cds
9389	22051	35222	0.77	2.0E-47	11526136	NT	Homo sapiens BTG family, member 3 (BTG3), mRNA
11451	23218	36451	1.27	2.0E-47	M76125.1	NT	Human tyrosine kinase receptor (ad) mRNA, complete cds
							y82a08.s1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:28666 3' similar to contains OFR repetitive element;
12077	25312	30709	1.75	2.0E-47	R42423.1	EST_HUMAN	qp59h03.x1 Soares_fetal_Jung_NhlL 19W Homo sapiens cDNA clone IMAGE:1831189 3'
1384	14131	26804	7.35	1.0E-47	A333429.1	EST_HUMAN	RC3-ST0197-130400-017-h02 ST0197 Homo sapiens cDNA
5017	17738	30347	1.96	1.0E-47	AW813006.1	EST_HUMAN	at19a06.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2365686 3' similar to gb:M22895
6944	19426	32441	6.79	1.0E-47	A1880886.1	EST_HUMAN	RAS-RELATED PROTEIN RAP-1A (HUMAN);
8767	21459		0.59	1.0E-47	AW684948.1	EST_HUMAN	h184a11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2978972 3' similar to gb:M26328
10254	22902	36112	2.28	1.0E-47	L30115.1	NT	KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
							Papio hamadryas alcohol dehydrogenase class I (ADH) gene, 5' region

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1607	14353	27041	3.03	9.0E-48	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3544	16296	28930	0.82	9.0E-48	BF356947.1	EST_HUMAN	CH22-MT0100-310700-290-405 MT0100 Homo sapiens cDNA
5594	18389	31299	0.86	9.0E-48	BE888198.1	EST_HUMAN	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913108 5'
5594	18389	31300	0.88	9.0E-48	BE888198.1	EST_HUMAN	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913108 5'
6010	18791	31754	0.88	9.0E-48	AB333168.1	EST_HUMAN	a178x09.x1 Barstead cdon HPLRB7 Homo sapiens cDNA clone IMAGE:2377889 3' similar to TR:080844
6131	18909	31877	0.84	9.0E-48	AU123240.1	EST_HUMAN	O60844 HOMOLOG OF RAT ZYMOGEN GRANULE MEMBRANE PROTEIN. ;
11060	23730	37002	3.09	9.0E-48	BE393813.1	EST_HUMAN	AU123240 NT2RM1 Homo sapiens cDNA clone NT2RM1000978 5'
1228	13978		1.44	8.0E-48	4501900	NT	601310749F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632083 5'
1229	13978		1.7	8.0E-48	4501900	NT	Homo sapiens aminocyclase 1 (ACY1), mRNA
3132	15897	28541	4.38	8.0E-48	AW768477.1	EST_HUMAN	Homo sapiens aminocyclase 1 (ACY1), mRNA
3132	15897	28542	4.38	8.0E-48	AW768477.1	EST_HUMAN	Homo sapiens aminocyclase 1 (ACY1), mRNA
3911	16861	28902	0.79	8.0E-48	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
478	13284		1.27	7.0E-48	AB033035.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
479	13284		17.09	7.0E-48	AB033035.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
1483	14230	26916	0.88	7.0E-48	6912719	NT	Homo sapiens taurine kinase 1 (TLK1), mRNA
1634	14380	27067	3.89	7.0E-48	5730038	NT	Homo sapiens SET domain and methyltransferase fusion gene (SETMAR) mRNA
6460	19227	32227	27.21	7.0E-48	11416831	NT	Homo sapiens histidinyl-tRNA synthetase (HARS), mRNA
5987	18749	31710	0.91	6.0E-48	AB008955.1	NT	Homo sapiens mRNA for AIE-75, complete cds
6698	19605	32845	1.08	6.0E-48	11420695	NT	Homo sapiens BMX non-receptor tyrosine kinase (BMX), mRNA
7365	25111	33123	0.58	6.0E-48	AB046844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
7365	25111	33124	0.58	6.0E-48	AB046844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
9022	21712	34868	2.07	6.0E-48	AF026816.1	NT	Homo sapiens putative oncogene protein mRNA, partial cds
9441	22119	35298	1.74	6.0E-48	11427428	NT	Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA
9598	22241	35425	3.2	6.0E-48	AA189080.1	EST_HUMAN	zq45b08.s1 Striatum hNT neuron (#837233) Homo sapiens cDNA clone IMAGE:832627 3' similar to contains Alu repetitive element
3304	17878	28713	1.94	5.0E-48	4826891	NT	Homo sapiens phosphodiesterase 1A, calmodulin-dependent (PDE1A) mRNA
8474	21168	34310	1.25	5.0E-48	BE064410.1	EST_HUMAN	RC4-BT0311-141193-011-108 BT0311 Homo sapiens cDNA
11603	24202	37524	1.39	5.0E-48	AW890298.1	EST_HUMAN	MRO-NT0039-010500-002-408 NT0039 Homo sapiens cDNA
10878	23558	36805	3.96	4.0E-48	AE020420.1	EST_HUMAN	tu47a02.x1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:2254154 3'
1384	14112	26786	1.27	3.0E-48	AV690984.1	EST_HUMAN	AV690984 GKC Homo sapiens cDNA clone GKCDRE12 5'

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1869	14705	27422	15.28	3.0E-48	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
1869	14705	27423	15.28	3.0E-48	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
3622	16375	29017	0.76	3.0E-48	AW684531.1	EST_HUMAN	h14b12.x1 NCL CGAP_GLI1 Homo sapiens cDNA clone IMAGE:2972255 3' similar to SW:DCRB_HUMAN
8304	18394	31519	2.47	3.0E-48	BE094571.1	EST_HUMAN	P36555 DOWN SYNDROME CRITICAL REGION PROTEIN B.;
6019	19655	32701	0.94	3.0E-48	AF087913.1	NT	MR4-BT0657-080400-201-e10 BT0657 Homo sapiens cDNA
							Human endogenous retrovirus HERV-P-T47D
8280	20984		3.41	3.0E-48	AA659930.1	EST_HUMAN	m0305.s1 NCL CGAP_P722 Homo sapiens cDNA clone IMAGE:1219137 3' similar to contains PTR5.b1
10784	23457	36708	9.52	3.0E-48	BF514170.1	EST_HUMAN	PTR5 repetitive element;
44	12873	25495	1.71	2.0E-48	AA631940.1	EST_HUMAN	UIH-BW1-ent-a-10-0-UI.s1 NCL CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082267 3'
							frntc7 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR17-28
1197	13949		5.15	2.0E-48	H24278.1	EST_HUMAN	ym55e10.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:52182 5' similar to
							SP:M68_MOUSE P35803 MEMBRANE GLYCOPROTEIN;
4495	17231	29851	1.42	2.0E-48	BE246085.1	EST_HUMAN	TCBAP1D3842 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TC8A Homo
5724	18516	31438	0.61	2.0E-48	AA613171.1	EST_HUMAN	sapiens cDNA clone TCBAP3842
5724	18516	31437	0.61	2.0E-48	AA613171.1	EST_HUMAN	no18g01.s1 NCL CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
7419	20096	33182	4.77	2.0E-48	AB040934.1	NT	no18g01.s1 NCL CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
7419	20096	33183	4.77	2.0E-48	AB040934.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
							Homo sapiens mRNA for KIAA1501 protein, partial cds
7432	20109	33197	3.35	2.0E-48	11496238	NT	Homo sapiens v-rel avian reticuloendotheliosis viral oncogene homolog A (nuclear factor of kappa light
8253	20947	34094	1.33	2.0E-48	AV743451.1	EST_HUMAN	polypeptide gene enhancer in B-cells 3 (p65) (RELA), mRNA
12041	17898	30486	4.27	2.0E-48	AA465007.1	EST_HUMAN	AV743451 CB Homo sapiens cDNA clone C8CGCG10 5'
12367	25232	30820	1.98	2.0E-48	BE737154.1	EST_HUMAN	z60c03.r1 Soares ovary tumor NbhOT Homo sapiens cDNA clone IMAGE:810082 5'
							601305064F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639782 5'
12716	13949		1.34	2.0E-48	H24278.1	EST_HUMAN	ym55e10.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:52182 5' similar to
54	12883	25511	2.3	1.0E-48	7706834	NT	SP:M68_MOUSE P35803 MEMBRANE GLYCOPROTEIN;
							Homo sapiens disphatin resistance-associated overexpressed protein (LOC51747), mRNA
853	13623	26233	17.13	1.0E-48	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease resistin-II, Alzheimer disease) (APP), mRNA
1273	14023	26891	3.77	1.0E-48	5032032	NT	Homo sapiens RNA binding motif protein 6 (RBM6) mRNA
1811	14848	27359	30.36	1.0E-48	AL163302.2	NT	Homo sapiens chromosome 21 segment HS21C102
3481	16238	28894	0.98	1.0E-48	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C046
5061	17780	30398	1.8	1.0E-48	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
							td17601.x1 NCL CGAP_Cot16 Homo sapiens cDNA clone IMAGE:2075604 3' similar to TR-O14588 O14588
6165	18971	31946	1.17	1.0E-48	AJ889077.1	EST_HUMAN	SIMILARITY TO U73941;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6195	18971	31947	1.17	1.0E-48	AI889077.1	EST_HUMAN	U17G01.x1 NCL CGAP_Cot16 Homo sapiens cDNA clone IMAGE:2075804 3' similar to TR:O14588 O14588
6407	19176		0.94	1.0E-48	Y18000.1	NT	SIMILARITY TO U73941:
6500	19265	32286	0.71	1.0E-48	AB028994.1	NT	Homo sapiens NF2 gene
6500	19265	32287	0.71	1.0E-48	AB028994.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
7157	19844	32813	2.52	1.0E-48	4755137	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
8730	21422	34566	0.76	1.0E-48	4758695	NT	Homo sapiens huntingtin (Huntington disease) (HD) mRNA
8730	21422	34567	0.76	1.0E-48	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
9113	21801	34968	0.84	1.0E-48	4502838	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
9168	21838	35004	6.4	1.0E-48	AB033071.1	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
9481	22134	35314	5.33	1.0E-48	BF304683.1	EST_HUMAN	Homo sapiens mRNA for KIAA1245 protein, partial cds
10269	22917	36127	4.08	1.0E-48	11429608	NT	60188808F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5'
10269	22917	36128	4.08	1.0E-48	11429608	NT	Homo sapiens B cell linker protein (SLP65), mRNA
2002	14737	27461	1.13	8.0E-49	AB028497.1	NT	Homo sapiens B cell linker protein (SLP65), mRNA
5902	18744	31704	3.43	8.0E-49	10048417	NT	Mus musculus MyoD mRNA for myosin containing PDZ domain, complete cds
5902	18744	31705	3.43	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20), mRNA
8194	20888	34026	3.17	8.0E-49	U73850.1	NT	Mus musculus T-box 20 (Tbx20), mRNA
9889	22539	35733	1.16	8.0E-49	AB009881.1	NT	Human Inositol 1,4,5 trisphosphate receptor type 1 mRNA, partial cds
135	13171	25814	1	7.0E-49	5729990	NT	Homo sapiens gene for activin receptor type IIb, complete cds
135	13171	25815	1	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
384	13171	25814	1.73	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
384	13171	25815	1.73	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
385	13171	25814	2.94	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
385	13171	25815	2.94	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
1199	13951	26815	3.4	7.0E-49	AL163284.2	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
6373	18173	30862	2.11	7.0E-49	AB07191.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
5383	18183	30873	1.48	7.0E-49	AL120937.1	EST_HUMAN	W125104.X1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:O54923
5716	18173	30862	0.67	7.0E-49	AB07191.1	EST_HUMAN	O54923 RSEC15:
							DKFZp762C033_s1 762 (synonym: hme2) Homo sapiens cDNA clone DKFZp762C033 3'
							W125104.X1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:O54923
							O54923 RSEC15:
192	19005	25648	12.12	6.0E-49	AW731740.1	EST_HUMAN	ba55g06.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900504 3' similar to gb:X17208 40S
4036	19837	29484	1.27	6.0E-49	AL162081.1	EST_HUMAN	RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20832 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
							DKFZp761A138_s1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A138 3'

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6349	19119	32109	0.94	6.0E-49	AU140742.1	EST_HUMAN	AU140742 PLACE4 Homo sapiens cDNA clone PLACE4000148 5'
7314	19997	33076	0.89	6.0E-49	AW511225.1	EST_HUMAN	hd44602.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2812378 3' similar to TR:086638
9633	22285	35478	0.45	6.0E-49	9910293	NT	O86938 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II ;
9633	22285	35479	0.45	6.0E-49	9910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
11248	23910	37202	2.5	6.0E-49	AW452218.1	EST_HUMAN	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
11681	24267	37579	2.6	6.0E-49	AA366556.1	EST_HUMAN	U144818.ab-a-05-0-U1.s1 NCL_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068048 3'
11681	24267	37580	2.6	6.0E-49	AA366556.1	EST_HUMAN	EST77626 Pancreas tumor III Homo sapiens cDNA 5' end
12362	25151		2.03	6.0E-49	AA707687.1	EST_HUMAN	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end
695	13470	28117	7	5.0E-49	AL163210.2	NT	232008.s1 Soares_fetal_liver_spleen_1NLS_S1 Homo sapiens cDNA clone IMAGE:451684 3'
695	13470	28118	7	5.0E-49	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
							Homo sapiens chromosome 21 segment HS21C010
1766	14527	27295	3.49	5.0E-49	AA172121.1	EST_HUMAN	zp2807.r1 Stragene neuroepithelium (#837231) Homo sapiens cDNA clone IMAGE:810860 5' similar to
2754	15469	28201	4.25	5.0E-49	U17114.1	NT	TR:G233228 G233228 RTVL-H PROTEIN, contains LTR7.13 LTR7 LTR7 repetitive element ;
							Homo sapiens putative tumor suppressor ST13 (ST13) mRNA, complete cds
3267	18029	28878	2.84	5.0E-49	11436355	NT	Homo sapiens similar to ribosomal protein S27 (metalloproteinin 1) (H. sapiens) (LOC833382), mRNA
612	13298	25927	47.84	4.0E-49	AW189533.1	EST_HUMAN	x08b01.x1 NCL_CGAP_U44 Homo sapiens cDNA clone IMAGE:2675663 3' similar to WP.B0350.2B
							CE08703 ;
7172	19858	32830	0.95	4.0E-49	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine polypeptide N-acetyl-galactosaminyltransferase 8
							(GalNAc-T8) (GALNT8), mRNA
7172	19858	32831	0.85	4.0E-49	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine polypeptide N-acetyl-galactosaminyltransferase 8
7710	20374	33488	0.9	4.0E-49	7662209	NT	(GalNAc-T8) (GALNT8), mRNA
8763	21465	34604	0.47	4.0E-49	11425374	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
8763	21455	34605	0.47	4.0E-49	11425374	NT	Homo sapiens copine III (CPNIE3), mRNA
12221	25368		4.21	4.0E-49	AA210788.1	EST_HUMAN	Homo sapiens copine III (CPNIE3), mRNA
							zr90f05.r1 NCL_CGAP_GC81 Homo sapiens cDNA clone IMAGE:882977 5'
							Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)
12306	24730		4.1	4.0E-49	AF240788.1	NT	genes, complete cds
647	13330	26961	1.73	3.0E-49	X68968.1	NT	H. sapiens mRNA for acetyl-CoA carboxylase
2654	15364		1.9	3.0E-49	AA016131.1	EST_HUMAN	z631c05.r1 Soares retina N2b44R Homo sapiens cDNA clone IMAGE:360584 5' similar to contains L1.13 L1
4923	17651	30264	2.33	3.0E-49	U46998.1	NT	repetitive element ;
							Human type IV collagen (COL4A4) gene, exon 40
7319	20002	33081	11.87	3.0E-49	H39479.1	EST_HUMAN	EST25e12 WATM1 Homo sapiens cDNA clone 25e12

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11272	23933	37228	1.88	3.0E-49	AA337591.1	EST_HUMAN	EST42572 Endometrial tumor Homo sapiens cDNA 5' end
846	13425		2.94	2.0E-49	BE165990.1	EST_HUMAN	MFC3-H10487-150200-113-g01 HTD487 Homo sapiens cDNA
3216	15979	28630	1.64	2.0E-49	N26448.1	EST_HUMAN	YK23d06.r1 Soares melanocyte 2Nbl-HM Homo sapiens cDNA clone IMAGE:282571 5'
							cz88d02.x1 Soares, senescent, fibroblasts, Nbl-HSF Homo sapiens cDNA clone IMAGE:1682403 3' similar to gb:M31470 RAS-LIKE PROTEIN TC10 (HUMAN); contains Alu repetitive element; contains element MER22 repetitive element;
4746	17478	30110	0.68	2.0E-49	AI167357.1	EST_HUMAN	ULH-B14-aps-d-02-0-JL.st NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:308638 3'
4758	17490	30118	0.74	2.0E-49	BF611846.1	EST_HUMAN	AV717838 DCB Homo sapiens cDNA clone DCBALB01 5'
6837	19399	32414	1.17	2.0E-49	AV717838.1	EST_HUMAN	EST02558 Fetal brain, Striatum (cat#936206) Homo sapiens cDNA clone HIFBCY50
7998	20693		1.74	2.0E-49	M88033.1	EST_HUMAN	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
12318	25250		2.07	2.0E-49	AF163864.1	NT	60145833F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3662086 5'
879	13648		5	1.0E-49	BF035327.1	EST_HUMAN	Homo sapiens keratin 18 (KRT18) mRNA
1546	14282	26878	1.11	1.0E-49	4557887	NT	601115769F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3356273 5'
1794	14534	27243	4.82	1.0E-49	BE255216.1	EST_HUMAN	601820053F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4052052 5'
5275	18080	30737	6.82	1.0E-49	BF131007.1	EST_HUMAN	YH48104.r1 Soares adult brain N2b-5HB5Y Homo sapiens cDNA clone IMAGE:171703 5' similar to SP:GBG1_HUMAN Q08447 GUANINE NUCLEOTIDE-BINDING PROTEIN G(T) GAMMA-1 SUBUNIT ;
5986	18767	31731	0.88	1.0E-49	H18281.1	EST_HUMAN	EST376713 MAGE resequencing, MAGH Homo sapiens cDNA
5982	18773	31738	5.55	1.0E-49	AW984640.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCV11 5'
7117	19805	32869	0.62	1.0E-49	AV703000.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCV11 5'
7117	19805	32870	0.62	1.0E-49	AV703000.1	EST_HUMAN	601280330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5'
7123	19811	32878	3.55	1.0E-49	BE396110.1	EST_HUMAN	601280330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5'
7123	19811	32879	3.55	1.0E-49	BE396110.1	EST_HUMAN	YH78g12.st Soares, placenta, 86d9weeks 2Nbl-HP8b9W Homo sapiens cDNA clone IMAGE:258406 3'
							similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7200	19888	32960	2.21	1.0E-49	N25884.1	EST_HUMAN	YH78g12.st Soares, placenta, 86d9weeks 2Nbl-HP8b9W Homo sapiens cDNA clone IMAGE:258406 3'
							similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7200	19888	32961	2.21	1.0E-49	N25884.1	EST_HUMAN	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
7977	20872	33795	0.69	1.0E-49	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
7977	20872	33796	0.69	1.0E-49	11321580	NT	Homo sapiens RNA binding motif protein 7 (LOC51120), mRNA
8575	21287		0.68	1.0E-49	6894184	NT	Homo sapiens RNA binding motif protein 7 (LOC51120), mRNA
8891	21552	34721	1.28	1.0E-49	BE408340.1	EST_HUMAN	601300992F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636398 5'
10026	22874	35889	1.58	1.0E-49	ALD43128.2	EST_HUMAN	DKFZp434D2423_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434D2423 5'
10978	23654	36907	1.43	1.0E-49	AV761477.1	EST_HUMAN	AV761477 NPD Homo sapiens cDNA clone NPDAWE04 5'
11281	23942	37236	3.32	1.0E-49	11427988	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
12215	24677		2.46	1.0E-49	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
4837	17685		1.4	9.0E-50	AF101475.1	NT	Homo sapiens glycine N-methyltransferase (GNMT) gene, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6310	25421		0.95	9.0E-50	BE285758.1	EST_HUMAN	601176250F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531588 5'
169	12880	26619	4.05	8.0E-50	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
702	13477	26125	2.54	8.0E-50	X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
702	13477	26126	2.54	8.0E-50	X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
1768	14500	27201	2.82	8.0E-50	4501890	NT	Homo sapiens actinin, alpha 1 (ACTN1) mRNA
2703	15410	28147	1.48	8.0E-50	4826958	NT	Homo sapiens capping protein (actin filament) muscle Z-line, beta (CAPZB), mRNA
2833	14691		15.7	8.0E-50	D90334.1	NT	Homo sapiens hepatocyte growth factor(HGF) gene, exon 18
11385	23982	37283	1.29	8.0E-50	AA633467.1	EST_HUMAN	np62406.s1 NCI_CGAP_B2 Homo sapiens cDNA clone IMAGE:1130891 3' similar to gb:J05450
805	13383	26015	0.76	7.0E-50	BE089891.1	EST_HUMAN	GLUTATHIONE S-TRANSFERASE TESTIS/BRAIN (HUMAN);
6887	19604	32643	1.08	7.0E-50	BF091922.1	EST_HUMAN	QV0-BT0709-280400-211-408 BT0703 Homo sapiens cDNA
6887	19604	32644	1.06	7.0E-50	BF091922.1	EST_HUMAN	RC8-TN0073-150600-011-A12 TN0073 Homo sapiens cDNA
7205	19890	32968	0.8	7.0E-50	AA627822.1	EST_HUMAN	RC8-TN0073-150600-011-A12 TN0073 Homo sapiens cDNA
10656	23347	36584	7.65	7.0E-50	AB72187.1	EST_HUMAN	rn59412.s1 NCI_CGAP_C68 Homo sapiens cDNA clone IMAGE:1148208 3' similar to gb:U69391 60S
4309	17048		0.68	6.0E-50	BE784381.1	EST_HUMAN	RIBOSOMAL PROTEIN L8 (HUMAN);
8112	20806		5.67	6.0E-50	BE044078.1	EST_HUMAN	wm56g11.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2439908 3'
10717	23406	36648	12.6	6.0E-50	AA312079.1	EST_HUMAN	60168956F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'
10717	23406	36647	12.6	6.0E-50	AA312079.1	EST_HUMAN	ho30f04.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:3089511 3' similar to contains MER29.03
1785	14526	27233	1.1	5.0E-50	BF332838.1	EST_HUMAN	MER28 repetitive element;
1785	14526	27234	1.1	5.0E-50	BF332838.1	EST_HUMAN	EST182775 Jurkat T-cells V1 Homo sapiens cDNA 5' end
8930	21680		5.26	5.0E-50	AA557683.1	EST_HUMAN	EST182775 Jurkat T-cells V1 Homo sapiens cDNA 5' end
897	13665		1.71	4.0E-50	AA601143.1	EST_HUMAN	CM0-BT0782-300500-398-605 BT0782 Homo sapiens cDNA
3441	16197	28847	0.99	4.0E-50	AL163248.2	NT	CM0-BT0782-300500-398-605 BT0782 Homo sapiens cDNA
6288	16041	32018	0.08	4.0E-50	11440683	NT	CM0-BT0782-300500-398-605 BT0782 Homo sapiens cDNA
7135	19822	32888	1.95	4.0E-50	BE087538.1	EST_HUMAN	repetitive element;
1931	14667		4.13	3.0E-50	MH8048.1	NT	no54a09.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104620 3' similar to gb:U53741_ma1
3293	16064	28703	1.24	3.0E-50	AA746142.1	EST_HUMAN	FBULIN-1, ISOFORM A PRECURSOR (HUMAN);
3734	16487	29124	1.14	3.0E-50	AW755254.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C048
							Homo sapiens cystinyl-tRNA synthetase (CARS), mRNA
							QV1-BT0681-280300-127-412 BT0681 Homo sapiens cDNA
							Human endogenous retrovirus RTVL-H2
							cd03008.s1 NCI_CGAP_K03 Homo sapiens cDNA clone IMAGE:1322827 3'
							CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5
							Cardiomyopathy associated gene 5

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6887	19584	32818	1.52	3.0E-50	11421514	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC53232), mRNA
7544	20214	33314	4.85	3.0E-50	AF233436.2	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
7544	20214	33315	4.85	3.0E-50	AF233436.2	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
8481	21173	34318	0.71	3.0E-50	6801589	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
9718	22369	35567	1.21	3.0E-50	AB046818.1	NT	Homo sapiens mRNA for KIAA1598 protein, partial cds
9727	22378	35580	0.99	3.0E-50	11418514	NT	Homo sapiens I-complex 10 (a murine top homolog) (TCP10), mRNA
10077	22725	35942	0.47	3.0E-50	Y18278.1	NT	Mus musculus mRNA for neurobeachin
10415	23061	36280	1.03	3.0E-50	AB002237.1	NT	Human mRNA for KIAA0289 gene, partial cds
11441	23208	36994	1.61	3.0E-50	11436959	NT	Homo sapiens Gb2-associated binder 2 (KIAA0571), mRNA
11441	23208	36994	5.35	3.0E-50	AJ245821.1	NT	Homo sapiens CTL2 gene
760	13532		5.38	2.0E-50	AF055066.1	NT	Homo sapiens MHC class 1 region
1057	13815	28476	5.57	2.0E-50	4557752	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
1424	14171	28857	2.25	2.0E-50	AF138303.1	NT	Homo sapiens decorin D mRNA, complete cds, alternatively spliced
6769	19513	32539	0.59	2.0E-50	AU124065.1	EST_HUMAN	AU124065 NT2RM2 Homo sapiens cDNA clone NT2RM2001609 5'
8215	20909	34044	1.02	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8215	20909	34045	1.02	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8355	21048	34186	10.04	2.0E-50	X06956.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
8355	21048	34187	10.04	2.0E-50	X06956.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
9784	22435	35841	1.51	2.0E-50	6910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
9784	22435	35842	1.51	2.0E-50	6910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
11680	24256		1.8	2.0E-50	AF023861.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
449	13235	25874	1.92	1.0E-50	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
2385	15087		9.48	1.0E-50	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
10083	22741	35956	1.57	1.0E-50	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
5893	18878	31624	1.21	9.0E-51	AW511225.1	EST_HUMAN	h444602.X1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2912378 3' similar to TR:O855336
6130	18908	31876	0.71	9.0E-51	AA744837.1	EST_HUMAN	O85638 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II.;
8572	21284	34403	0.65	9.0E-51	AI791154.1	EST_HUMAN	ny67h03.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1283381 3'
8224	21903	35075	1.23	9.0E-51	AA043738.1	EST_HUMAN	ab23g04.x5 Stragene lung (#837210) Homo sapiens cDNA clone IMAGE:841696 3' similar to
							SW:PSM_HUMAN_Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN;
							ab51c09.r1 Scores_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:486952 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9400	22062	35231	0.68	9.0E-51	A1791154.1	EST_HUMAN	ab23g04.x5 Stratagene lung (#637210) Homo sapiens cDNA clone IMAGE:841686 3' similar to SW:PSM_HUMAN_Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;
9400	22062	35232	0.68	9.0E-51	A1791154.1	EST_HUMAN	ab23g04.x5 Stratagene lung (#637210) Homo sapiens cDNA clone IMAGE:841686 3' similar to SW:PSM_HUMAN_Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;
11455	23222	36458	1.89	9.0E-51	H89078.1	EST_HUMAN	yw24g06.l1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:253210 5'
11455	23222	36457	1.89	9.0E-51	H89078.1	EST_HUMAN	yw24g06.l1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:253210 5'
11823	18908	31878	1.43	9.0E-51	AA744837.1	EST_HUMAN	my67h03.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1283381 3'
4405	17142	29770	1.45	8.0E-51	4503932	NT	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA
4405	17142	29771	1.45	8.0E-51	4503932	NT	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA
4530	17285	29898	8.43	8.0E-51	AA610842.1	EST_HUMAN	np88609.s1 NCI_CGAP_Lu1 Homo sapiens cDNA clone IMAGE:1142440 3' similar to gb:U12671_mai1
7552	20222	33325	2.24	8.0E-51	11439587	NT	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
9384	21939		1.13	8.0E-51	AU138560.1	EST_HUMAN	Homo sapiens PDZ-73 protein (PDZ-73NY-CO-38), mRNA
11812	20222	33325	2.02	8.0E-51	11439587	NT	AU138560 PLACE1 Homo sapiens cDNA clone PLACE1008887 5'
3015	15781	28430	0.9	7.0E-51	AW274720.1	EST_HUMAN	Homo sapiens PDZ-73 protein (PDZ-73NY-CO-38), mRNA
3278	16037	28687	1.45	7.0E-51	AW89219.1	EST_HUMAN	Q92340 ATYPICAL PKC SPECIFIC BINDING PROTEIN ;
4148	16888	28519	1.37	7.0E-51	AL078028.1	EST_HUMAN	QV4-NT0028-200400-180-d06 NT0028 Homo sapiens cDNA
4148	16888	28520	1.37	7.0E-51	AL078028.1	EST_HUMAN	DKF7p434B2228_j1 434 (synonym: hies3) Homo sapiens cDNA clone DKF7p434B2228 5'
4318	17067	28681	2.71	7.0E-51	AW286803.1	EST_HUMAN	DKF7p434B2228_j1 434 (synonym: hies3) Homo sapiens cDNA clone DKF7p434B2228 5'
11688	24281	37603	1.34	7.0E-51	AF161449.1	NT	U1-HBW0-elp-b-05-0-U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2728817 3'
1972	14708	27426	4.86	6.0E-51	7657288	NT	Homo sapiens HSPC331 mRNA, partial cds
3466	16222	28876	14.73	6.0E-51	7657288	NT	Homo sapiens KIAA0928 protein Mix2 interacting nuclear target (MINT) homolog (KIAA0928), mRNA
5901	18688	31634	1.58	6.0E-51	X01788.1	NT	Homo sapiens KIAA0928 protein Mix2 interacting nuclear target (MINT) homolog (KIAA0928), mRNA
5912	18686	31648	9.95	6.0E-51	AF070083.1	NT	Human haemoglobin related (Hpr) gene exon 3
5912	18686	31649	9.95	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
6663	19580	32615	1.02	6.0E-51	4506736	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
6792	18336	32584	0.97	6.0E-51	11416751	NT	Homo sapiens ribosomal protein S8 kinase, 70kD, polypeptide 1 (RPS8KB1) mRNA
6868	17945	30540	2.2	6.0E-51	11426885	NT	Homo sapiens non-kinase Cdc42 effector protein SPEC2 (LOC58890), mRNA
8035	21725	34878	0.68	6.0E-51	11426825	NT	Homo sapiens cerebral cell adhesion molecule (LOC51148), mRNA
8035	21725	34879	0.68	6.0E-51	11426825	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA
8682	22235	35419	2.18	6.0E-51	7661535	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9602	22314	35511	0.87	6.0E-51	U50093.1	NT	Human ankyrin (ANK1) gene, exon 2
11221	23884	37169	1.51	6.0E-51	11526289	NT	Homo sapiens interleukin 17 receptor (IL17R), mRNA
11515	24115	37425	1.52	6.0E-51	5453849	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA
11515	24115	37426	1.52	6.0E-51	5453849	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA
774	13546	26207	11.81	5.0E-51	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21Q003
785	13557	26219	1.96	5.0E-51	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
970	15557	26400	0.95	6.0E-51	AL133204.1	NT	Novel human gene mapping to chromosome X
1803	14349	27038	0.99	5.0E-51	5031880	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
2601	15315	28052	8.67	5.0E-51	AI007558.1	NT	Homo sapiens mRNA for nucleoporin 155
3925	16675	29316	1.52	6.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
3925	16675	29317	1.52	6.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
11249	23911	37203	4.18	5.0E-51	5803136	NT	Homo sapiens RNA binding motif protein 3 (RBM3), mRNA
1163	13908	28571	3.65	3.0E-51	AI587948.1	EST_HUMAN	trb1c09.x1 NCI_CGAP_Part1 Homo sapiens cDNA clone IMAGE:2224720 3' similar to gb:M26328
4292	17031	29659	1.97	3.0E-51	AL159142.1	NT	KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN); Novel human gene mapping to chromosome 22
7479	20152	33246	3	3.0E-51	R15914.1	EST_HUMAN	ye47c08.l1 Scores Infant brain 1N1B Homo sapiens cDNA clone IMAGE:53233 5' similar to gb:M14123_cde4
8738	21430		4.66	3.0E-51	M29063.1	NT	RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN); contains LTR5 repetitive element;
8968	25430		0.47	3.0E-51	AW58377.1	EST_HUMAN	Human hnRNP C2 protein mRNA
357	13155	25796	2.01	2.0E-51	4507798	NT	iso4406.y1 Human Pancreatic Islets Homo sapiens cDNA 5' (Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
1683	14427	27124	5.16	2.0E-51	AA233352.1	EST_HUMAN	zr30a05.l1 Stralagene NT2 neuronal precursor 937230 Homo sapiens cDNA clone IMAGE:684880 5' similar
3716	16468	29107	1.57	2.0E-51	AI492415.1	EST_HUMAN	to TR:G233228 G233228 RTVL-H PROTEIN. contains LTR7.9 LTR7 repetitive element;
4458	17194	29820	0.78	2.0E-51	AW137828.1	EST_HUMAN	h27g03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2131732 3'
5352	18155	30837	0.7	2.0E-51	AI732851.1	EST_HUMAN	UJ-H-BIT-adj-d-02-QJ1.s1 NCI_CGAP_Sub53 Homo sapiens cDNA clone IMAGE:2716851 3'
5352	18155	30838	0.7	2.0E-51	AI732851.1	EST_HUMAN	cb34f09.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE
5925	18709	31653	3.06	2.0E-51	BE782015.1	EST_HUMAN	P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR;
7209	19894		0.61	2.0E-51	AF218927.1	NT	P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR; P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR; G01470446F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3873563 5'
							Homo sapiens diacylglycerol kinase beta (DGK) gene, exon 23

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7357	20038	33116	1.08	2.0E-51	7682349	NT	Homo sapiens cell recognition molecule Casp2 (KIAA0888), mRNA
8599	21291	34432	1.72	2.0E-51	BE901894.1	EST_HUMAN	601676787F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3956613 5'
8598	21291	34433	1.72	2.0E-51	BE901894.1	EST_HUMAN	601676787F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3956613 5'
8932	21623	34768	0.96	2.0E-51	11037084	NT	Homo sapiens disrupted in schizophrenia 1 (DISC1), mRNA
9412	22090	35281	1.45	2.0E-51	AB917078.1	EST_HUMAN	ts74d07.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2236980 3' similar to SW:TRKC_HUMAN
9503	22156	35336	5.68	2.0E-51	BE166880.1	EST_HUMAN	Q16288 NT-3 GROWTH FACTOR RECEPTOR PRECURSOR ;
9519	22172	36356	0.6	2.0E-51	AB907828.1	NT	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
10332	22979	39199	1.77	2.0E-51	AV682474.1	EST_HUMAN	Homo sapiens mRNA for KIAA0457 protein, partial cds
10370	23018	38232	2.67	2.0E-51	AA378558.1	EST_HUMAN	AV682474 GK8 Homo sapiens cDNA clone GKBAF05 5'
11298	18155	30837	8.52	2.0E-51	AT732851.1	EST_HUMAN	ESTB1298 Synovial sarcoma Homo sapiens cDNA 5' and
11298	18155	30838	8.52	2.0E-51	AT732851.1	EST_HUMAN	cb34f08.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325608 3' similar to SW:NME1_MOUSE
12523	24870	31017	2.1	2.0E-51	11419159	NT	P35438 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
112	12934	25571	5.74	1.0E-51	4503528	NT	cb34f08.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325608 3' similar to SW:NME1_MOUSE
1479	14228	30294	1.52	1.0E-51	BE779039.1	EST_HUMAN	P35438 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
4859	17684	30294	1.52	1.0E-51	BE779039.1	EST_HUMAN	cb34f08.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325608 3' similar to SW:NME1_MOUSE
5305	18110	30769	4.1	1.0E-51	T18862.1	EST_HUMAN	P35438 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
7549	20219	33322	0.94	1.0E-51	AE157532.1	EST_HUMAN	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4), mRNA
7803	20498	33619	0.81	1.0E-51	BF494359.1	EST_HUMAN	(MLLT4), mRNA
11783	25434		2	1.0E-51	AV760590.1	EST_HUMAN	Homo sapiens eukaryotic translation initiation factor 4A, isoform 1 (EIF4A1) mRNA
10587	23282	36520	1.39	9.0E-52	R01638.1	EST_HUMAN	AV742248 C8 Homo sapiens cDNA clone CBFBCC12 5'
10587	23282	36521	1.39	9.0E-52	R01638.1	EST_HUMAN	601494885F1 NIH_MGC 67 Homo sapiens cDNA clone IMAGE:3886246 5'
12301	24726		5.36	9.0E-52	AA777621.1	EST_HUMAN	b120568 Testis 1 Homo sapiens cDNA clone b120568
148	12863	25605	9.99	8.0E-52	AA720574.1	EST_HUMAN	ts39g02.x1 Scores_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:2089106 3'
1482	14229	26815	1.65	8.0E-52	X84900.1	NT	ts39g02.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3844091 3' similar to TR:P87892 P87892
							PROTEASE ;
							AV760590 MDS Homo sapiens cDNA clone MDSCB802 5'
							Yq10h04.r1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:196567 5' similar to
							SP:YGAF_ECOLI_P37399 HYPOTHETICAL PROTEIN IN GABP 3REGION ;
							Yq10h04.r1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:196567 5' similar to
							SP:YGAF_ECOLI_P37399 HYPOTHETICAL PROTEIN IN GABP 3REGION ;
							ts65a07.s1 Scores fetal liver spleen 1NFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to
							contains THR13 THR repetitive element ;
							nm21g02.s1 NCI_CGAP_G080 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR13
							THR repetitive element ;
							H.sapiens mRNA for laminin-5, alpha3b chain

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1650	14398	27085	3.13	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13558 similar to N-myc downstream regulated 3 (FLJ13558), mRNA
1650	14398	27088	3.13	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13558 similar to N-myc downstream regulated 3 (FLJ13558), mRNA
3978	14398	27085	6.6	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13558 similar to N-myc downstream regulated 3 (FLJ13558), mRNA
3978	14398	27088	6.6	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13558 similar to N-myc downstream regulated 3 (FLJ13558), mRNA
7417	20094	33178	0.67	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
7417	20094	33179	0.67	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
8911	21802	34745	2.04	7.0E-52	W56471.1	EST_HUMAN	zc58a08.1 Soares_papillary_thyroid_tumor_Nb-HPA Homo sapiens cDNA clone IMAGE:326578 5' similar to contains Alu repetitive element
1184	13918		0.76	6.0E-52	BE072409.1	EST_HUMAN	QV3-BT0837-271299-049-d07 BT0837 Homo sapiens cDNA
1689	14433	27129	4.27	6.0E-52	AF108907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
5641	18438	31349	0.86	6.0E-52	A1208794.1	EST_HUMAN	qg44f04.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838047 3'
							tz46h04.y1 NCI_CGAP_Bn62 Homo sapiens cDNA clone IMAGE:2281671 5' similar to SW:PGEM_MOUSE Q05783 BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR:
11170	23837	37119	1.84	6.0E-52	BE048172.1	EST_HUMAN	Homo sapiens FSHD region gene 1 (FRG1), mRNA
9292	21959	35132	0.6	6.0E-52	11437366	NT	
1723	14466	27165	1.32	4.0E-52	4501922	NT	Homo sapiens adenylyl cyclase activating polypeptide 1 (pituitary) receptor type 1 (ADCYAP1R1) mRNA
1780	14521	27225	1.02	4.0E-52	4758843	NT	Homo sapiens nucleoporin 155kD (NUP155) mRNA
3908	16958	29287	0.89	4.0E-52	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
5204	18012	30833	1.33	4.0E-52	4508132	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
5204	18012	30834	1.33	4.0E-52	4508132	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
7838	20633	33760	1.74	4.0E-52	BE622032.1	EST_HUMAN	601440887F1 NIH MGC 72 Homo sapiens cDNA clone IMAGE:3915838 5'
8432	21125	34263	5.48	4.0E-52	11417035	NT	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 4 (HSD17B4), mRNA
12143	24631		5.11	4.0E-52	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12627	24830		5.23	4.0E-52	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
4071	16815		10.57	3.0E-52	11437042	NT	Homo sapiens hypothetical protein FLJ10675 (FLJ10675), mRNA
549	13332	25062	2.88	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
549	13332	25063	2.88	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2503	15220	27963	2.04	2.0E-52	BE207575.1	EST_HUMAN	bb66807.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030421 5' similar to gb:X16493 M.musculus mRNA for Zfp-1 zinc finger protein (MOUSE);
2740	15446		6.03	2.0E-52	BF677882.1	EST_HUMAN	602084710F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248891 5'
4920	17648	30280	2.13	2.0E-52	AL137188.3	NT	Novel human gene mapping to chromosome 20, similar to membrane transporters
4952	17678	30287	1.29	2.0E-52	A1141802.1	EST_HUMAN	qs56a05.s1 Soares_NIH-IMPu_S1 Homo sapiens cDNA clone IMAGE:1690784 3'
4952	17678	30288	1.28	2.0E-52	A1141802.1	EST_HUMAN	qs56a05.s1 Soares_NIH-IMPu_S1 Homo sapiens cDNA clone IMAGE:1690784 3'
5617	18413	31328	4.11	2.0E-52	AW848041.1	EST_HUMAN	IL3-CT0214-231289-083-E12 CT0214 Homo sapiens cDNA
6274	19047	32024	1.98	2.0E-52	11141868	NT	Homo sapiens Interleukin 21 receptor (IL21R), mRNA
6813	19376	32390	0.89	2.0E-52	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6843	19543	32571	1.17	2.0E-52	A1792146.1	EST_HUMAN	cs45d12.y5 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1608311 5'
8551	21243		9.03	2.0E-52	AF147880.1	NT	Mecaca mulatta beta-tubulin mRNA, complete cds
8834	21538	34572	0.81	2.0E-52	AA778795.1	EST_HUMAN	z45g05.s1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:453272 3'
9379	21954		0.88	2.0E-52	4758789	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 5 (15kD) (NADH-coenzyme Q reductase) (NDUFS5) mRNA
10015	22663	35879	5.53	2.0E-52	5730038	NT	Homo sapiens SET domain and methyltransferase fusion gene (SETMAR) mRNA
10016	22663	35880	5.53	2.0E-52	5730038	NT	Homo sapiens SET domain and methyltransferase fusion gene (SETMAR) mRNA
11165	23832	37111	3.15	2.0E-52	A831462.1	EST_HUMAN	wj48c04.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.Lb2 THR repetitive element;
11165	23832	37112	3.15	2.0E-52	A831462.1	EST_HUMAN	wj48c04.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.Lb2 THR repetitive element;
11178	23845	37131	3.09	2.0E-52	AV716377.1	EST_HUMAN	AV716377 DC8 Homo sapiens cDNA clone DC8AIE03 5'
11325	24016		1.72	2.0E-52	W70280.1	EST_HUMAN	z048g12.l1 Soares_fetal_heart_NbH19W Homo sapiens cDNA clone IMAGE:344038 5'
11618	24215		2.78	2.0E-52	11417990	NT	Homo sapiens LIM domain kinase 2 (LIMK2), mRNA
11861	25408	30601	24.36	2.0E-52	AW238297.1	EST_HUMAN	xn72a07.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2700038 3' similar to contains Alu repetitive element; contains element LTR2 repetitive element;
12850	24756		4.49	2.0E-52	A808885.1	EST_HUMAN	wf67a05.x1 Soares_NFL_T_08C_S1 Homo sapiens cDNA clone IMAGE:2360649 3' similar to TR-Q16859 Q16859 CARBOXYLESTERASE;
520	13304	25937	1.96	1.0E-52	AA634445.1	EST_HUMAN	zu75h12.s1 Soares_Jesla_NHT Homo sapiens cDNA clone IMAGE:743879 3'
1350	14068	26773	37.84	1.0E-52	4504028	NT	Homo sapiens glutamate-aminoligase (glutamine synthase) (GLUL) mRNA
2537	15252		0.9	1.0E-52	4502238	NT	Homo sapiens arylsulfatase D (ARSD), transcript variant 1, mRNA
3055	15821	28465	2.67	1.0E-52	S61070.1	NT	po1-reverse transcriptase homodog (retroviral element) [human, endogenous retroviral element RTVL-Hp1, Genomic, 680 nt]
5250	18056	30684	4.35	1.0E-52	M28426.1	NT	Human P-glycoprotein (MDR1) gene, exon 4
6300	18073	32059	2.51	1.0E-52	U88964.1	NT	Human PMS2 related (hPMSR2) gene, complete cds

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7330	20012	33090	5.31	1.0E-52	X07282.1	NT	Human aldolase C gene for fructose-1,6-bisphosphate aldolase
8364	21057		1.2	1.0E-52	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
8087	21776	34940	0.75	1.0E-52	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10478	23122		1.03	1.0E-52	AW020370.1	EST_HUMAN	cd08g05.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483145 5'
10486	23132		1.39	1.0E-52	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
10665	23356	36586	1.61	1.0E-52	U48286.1	NT	Homo sapiens protein tyrosine phosphatase F1PCCAAX1 (hPTPCAAX1) mRNA, complete cds
10740	23427		2.09	1.0E-52	11426321	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 2 (PSMB2), mRNA
3771	16523	29161	1.05	9.0E-53	4906064	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B) mRNA
4959	17097	29732	1.96	9.0E-53	AF001446.1	NT	Homo sapiens core binding factor alpha1 subunit (CBFA1) gene, exon 3
12189	24660		3.18	7.0E-53	BF239465.1	EST_HUMAN	601804771F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4132783 5'
12600	26285		4.92	7.0E-53	AI421782.1	EST_HUMAN	W4407.x1 NCI CGAP_Brm23 Homo sapiens cDNA clone IMAGE:2089077 3' similar to contains T1-R11
5088	17805	30422	1.02	8.0E-53	BE295719.1	EST_HUMAN	THIR repetitive element;
4078	16822	29448	2.28	5.0E-53	4758543	NT	601175776F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3530948 5'
12236	24688		1.58	5.0E-53	AW813563.1	EST_HUMAN	Homo sapiens heterogeneous nuclear ribonucleoprotein C (C1/C2) (HNRPC) mRNA
48	12877	26502	2.76	4.0E-53	AL163285.2	NT	RC3-ST0197-151089-011-g10 ST0197 Homo sapiens cDNA
48	12877	26503	2.76	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
4771	17503	30126	1.03	4.0E-53	7705414	NT	Homo sapiens chromosome 21 segment HS21C085
9316	21983		0.68	4.0E-53	AI813037.1	EST_HUMAN	Homo sapiens hook1 protein (HOOK1), mRNA
9658	22308		0.67	4.0E-53	F13080.1	EST_HUMAN	U08H04.x1 NCI CGAP_U18 Homo sapiens cDNA clone IMAGE:2278327 3'
11175	23842	37126	2.78	4.0E-53	BF128701.1	EST_HUMAN	HSC3ID041 normalized infant brain cDNA Homo sapiens cDNA clone c-3id04
11175	23842	37127	2.78	4.0E-53	BF128701.1	EST_HUMAN	601810989F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
2665	15375	28114	1.77	3.0E-53	AB026898.1	NT	601810989F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
4549	17284	28914	0.74	3.0E-53	AW803563.1	EST_HUMAN	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
5339	18142	30803	0.7	3.0E-53	AF001212.1	NT	IL2-JM0081-240300-055-D03 UM0081 Homo sapiens cDNA
5538	18336	31243	0.82	3.0E-53	11526287	NT	Homo sapiens 26S proteasome subunit 9 mRNA, complete cds
6101	18879	31846	0.85	3.0E-53	BE160025.1	EST_HUMAN	Homo sapiens MIL-1 protein (MIL1), mRNA
6998	19690	32740	1.04	3.0E-53	Y10388.3	NT	QV1-HT0412-280300-123-c04 HT0412 Homo sapiens cDNA
6998	19690	32741	1.04	3.0E-53	Y10388.3	NT	H. sapiens graf gene
8203	20897	34034	12.52	3.0E-53	S72043.1	NT	H. sapiens graf gene
8758	21450	34597	0.65	3.0E-53	10835090	NT	GIF=growth inhibitory factor [human, brain, Genomic, 2015 nt]
8955	21646		8.41	3.0E-53	5801953	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
11826	24410	37746	2.79	3.0E-53	8823598	NT	Homo sapiens FGFR1 oncogene partner (FOP), mRNA
							Homo sapiens hypothetical protein FLJ20644 (FLJ20644), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
445	13231		5.82	2.0E-53	AA368566.1	EST_HUMAN	EST77525 P. pancreas tumor III Homo sapiens cDNA 5' end
2327	15052	27788	2.79	2.0E-53	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2538	15253		8.73	2.0E-53	4502316	NT	Homo sapiens ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) 31kD; Vacuolar proton-ATPase, subunit E; V-ATPase, subunit E (ATP8E), mRNA
2729	15436	28172	1.46	2.0E-53	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
2729	15436	28173	1.46	2.0E-53	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
3239	16001	28651	3.72	2.0E-53	AF083822.1	NT	Homo sapiens dihydropyridine receptor alpha 2 subunit (GACNA2D1) gene, exon 6
4036	16781	29411	2.53	2.0E-53	M81873.1	NT	Human Kruppel-related DNA-binding protein (TF34) gene, partial cds
5340	18143	30804	2.67	2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0398-170800-001-g03 CT0398 Homo sapiens cDNA
5340	18143	30805	2.67	2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0398-170800-001-g03 CT0398 Homo sapiens cDNA
7770	20468	33560	1	2.0E-53	AW975598.1	EST_HUMAN	EST387707 MAGE resequences, MAGN Homo sapiens cDNA
9308	21975		3.82	2.0E-53	AW245678.1	EST_HUMAN	2822665.5prime NIH_MGC 7 Homo sapiens cDNA clone IMAGE:2822665 5'
1428	14175	26860	1.51	1.0E-53	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
3404	16162	28813	1.08	1.0E-53	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
6593	16356	32370	1.52	1.0E-53	BF364201.1	EST_HUMAN	GM4-NN1028-150800-543-e02 NN1028 Homo sapiens cDNA
7147	19834	32803	0.68	1.0E-53	BE012071.1	EST_HUMAN	RC5-BN1058-270400-031-D01 BN1058 Homo sapiens cDNA
7836	20531	33658	0.54	1.0E-53	AA249072.1	EST_HUMAN	JB671.seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
8987	21677	34826	5.91	1.0E-53	X79536.1	NT	H. sapiens mRNA for hnRNPcore protein A1
11833	24417	37757	1.41	1.0E-53	X88411.1	NT	H. sapiens mRNA for myosin-IE
11833	24417	37758	1.41	1.0E-53	X88411.1	NT	H. sapiens mRNA for myosin-IE
11855	24507	37255	2.29	1.0E-53	AW245422.1	EST_HUMAN	2822943.3prime NIH_MGC 7 Homo sapiens cDNA clone IMAGE:2822943 3'
5219	25083	30851	6.16	9.0E-54	4505786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
202	13016	26655	2.4	8.0E-54	BE386785.1	EST_HUMAN	601272863F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614031 5'
1827	14566	27278	1.77	8.0E-54	4504610	NT	Homo sapiens insulin-like growth factor 2 receptor (IGF2R) mRNA
5945	18633	31568	26.87	8.0E-54	6005700	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCAB), mRNA
375	13200	25845	1.27	7.0E-54	AA812537.1	EST_HUMAN	ai78c12.e1 Scores_12HT Homo sapiens cDNA clone 1377048 3' similar to contains MER30.13 MER30 repetitive element
1822	14561	27273	1.65	7.0E-54	Y16845.1	NT	Homo sapiens mRNA for monocyte chemotactic protein-2
2202	14930	27667	6.38	7.0E-54	N27177.1	EST_HUMAN	yw68d12.e1 Scores_placenta_86c9weeks_2NbtHP8to9W Homo sapiens cDNA clone IMAGE:257369 3' similar to contains LTR7.53 LTR7 repetitive element

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10028	22676	35982	2.08	7.0E-54	11417222	NT	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC83182), mRNA
11047	23717	36886	1.74	7.0E-54	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11047	23717	36887	1.74	7.0E-54	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11261	23923		4.35	7.0E-54	AI160189.1	EST_HUMAN	qb87g03.x1 Soares_fetal_heart_Nb1H19W Homo sapiens cDNA clone IMAGE:1705204 3' similar to contains OFR.11 OFR repetitive element;
11811	24400	37736	1.49	7.0E-54	AF111187.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
11811	24400	37737	1.49	7.0E-54	AF111187.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
22	12850	26465	1.41	6.0E-54	AB030818.1	NT	Homo sapiens DNA for MICB, exon 4, 5 and partial cds
376	13201	25846	6.83	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
376	13201	25847	6.83	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
3277	16038	28688	0.77	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
3988	16734	28688	1.91	6.0E-54	4502872	NT	Homo sapiens chloride channel 8 (CLCN8) mRNA
4429	17165	29794	0.86	6.0E-54	AV764746.1	EST_HUMAN	AV764746 TP Homo sapiens cDNA clone TPGAAC10 5'
4792	17523	30145	1.78	6.0E-54	4505806	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
4819	17550		1.15	6.0E-54	Y08846.1	NT	H. sapiens shc pseudogene, p86 isoform
11432	23189	38430	1.51	6.0E-54	AW813667.1	EST_HUMAN	RC3-ST0197-151089-011-408 ST0197 Homo sapiens cDNA
2146	14876	27611	3.78	5.0E-54	P51523	SWISSPROT	ZINC FINGER PROTEIN 84 (ZINC FINGER PROTEIN HPF2)
178	12980		13.34	4.0E-54	AF110103.1	NT	Tupala belangeri beta-actin mRNA, partial cds
936	13703	26368	57.5	4.0E-54	AA306764.1	EST_HUMAN	EST177896 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to glyceraldehyde-3-phosphate dehydrogenase
1798	14538	27248	3.22	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
1798	14538	27249	3.22	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
3189	15862		1	4.0E-54	AB35086.1	EST_HUMAN	wb26d11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2329269 3' similar to TR-O02711
92	12918	25555	4.47	3.0E-54	AA313487.1	EST_HUMAN	EST186371 Odon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
1565	14312		0.91	3.0E-54	AW515742.1	EST_HUMAN	h87g08.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2916542 3'
2574	16288	28025	0.96	3.0E-54	AL110383.1	EST_HUMAN	DKFZp434E0731.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434E0731 5'
2630	15342		1.34	3.0E-54	AB08757.1	EST_HUMAN	IL-BT189-180399-007 BT189 Homo sapiens cDNA
5814	18003	31531	1.74	3.0E-54	4502434	NT	Homo sapiens BMX non-receptor tyrosine kinase (BMX) mRNA
7288	19971	33048	2.1	3.0E-54	AA844061.1	EST_HUMAN	a82c08.st Soares_parathyroid_tumor_Nb1HPA Homo sapiens cDNA clone IMAGE:1388270 3'
7288	19971	33049	2.1	3.0E-54	AA844061.1	EST_HUMAN	a82c08.st Soares_parathyroid_tumor_Nb1HPA Homo sapiens cDNA clone IMAGE:1388270 3'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10949	23627		1.63	3.0E-54	11434806	NT	Homo sapiens golgi autoantigen, golgin subfamily a, 5 (GOLGA5), mRNA
11024	23696	36859	4.83	3.0E-54	BF345600.1	EST_HUMAN	602019408F1 NCL_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4155121 5'
11341	24031	37335	3.26	3.0E-54	AA383362.1	EST_HUMAN	z107012.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:4155121 5'
12056	24573	31119	2.98	3.0E-54	AW864559.1	EST_HUMAN	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN ;
12097	25373		2.51	3.0E-54	AW748965.1	EST_HUMAN	EST366829 IMAGE resequences, MAGC Homo sapiens cDNA
627	13408	26040	8.86	2.0E-54	5031900	NT	RC1-BT0313-131189-011-509 BT0313 Homo sapiens cDNA
1344	14092	26767	0.96	2.0E-54	4507164	NT	Homo sapiens killer cell lectin-like receptor subfamily G, member 1 (KLRG1), mRNA
1539	14286	26672	1.37	2.0E-54	AA655008.1	EST_HUMAN	Homo sapiens nuclear antigen Sp100 (SP100) mRNA
2541	15255	27995	1.22	2.0E-54	AW163175.1	EST_HUMAN	n178a09.s1 NCL_CGAP_P3 Homo sapiens cDNA clone IMAGE:1204600 similar to contains element L1 repetitive element ;
2608	15320	28062	1.65	2.0E-54	AL163210.2	NT	au92003.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783784 5' similar to SW:CUL1_HUMAN Q13616 CULLIN HOMOLOG 1 ;
2896	15663	28311	1.52	2.0E-54	AW057524.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C010
3311	16071	28721	1.18	2.0E-54	AJ278314.1	NT	wy60b12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2552827 3' similar to TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING ;
3536	16292		3.2	2.0E-54	AA532925.1	EST_HUMAN	Homo sapiens mRNA for phospholipase C-beta-1b (PLCB1 gene)
4181	16921		2.08	2.0E-54	4502842	NT	n145g09.s1 NCL_CGAP_P10 Homo sapiens cDNA clone IMAGE:3965488 similar to gb:533777 60S RIBOSOMAL PROTEIN L23 (HUMAN);
4826	17556	30178	1.02	2.0E-54	7708446	NT	Homo sapiens chaperonin containing T-complex subunit 6 (CCT6) mRNA
5388	18188	30880	1.64	2.0E-54	4759069	NT	Homo sapiens peptidylarginine deiminase type III (LOC51702), mRNA
5516	18314	31216	1.2	2.0E-54	BE047984.1	EST_HUMAN	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 14 (SCYA14) mRNA
5675	18469	31385	5.04	2.0E-54	11426857	NT	tz43c11.y1 NCL_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2291348 5'
5771	18562	31489	13.89	2.0E-54	AB046811.1	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
5771	18562	31490	13.89	2.0E-54	AB046811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
6559	19324	32331	0.68	2.0E-54	AF008915.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
6713	19628	32672	0.65	2.0E-54	AB023212.1	NT	Homo sapiens EVI5 homolog mRNA, complete cds
6713	19628	32673	0.65	2.0E-54	AB023212.1	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
7023	19715	32772	8.8	2.0E-54	11426544	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
9529	22182	35366	4.11	2.0E-54	AB001025.1	NT	Homo sapiens neurofascin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1), mRNA
9909	22558	35753	0.79	2.0E-54	11429127	NT	Homo sapiens mRNA for brain tyrosine receptor, complete cds
10021	22689	35885	1.01	2.0E-54	11416762	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10021	22689	35886	1.01	2.0E-54	11416762	NT	Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10947	18324	32331	1.57	2.0E-54	AF008915.1	NT	Homo sapiens EVI5 homolog mRNA, complete cds
11727	24321		2.86	2.0E-54	7657454	NT	Homo sapiens pascadillo (zabrafish) homolog 1, containing BRGT domain (PES1), mRNA
4432	17168		1.22	1.0E-54	BF316418.1	EST_HUMAN	601899230F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128535 5'
10163	22801	36018	0.52	1.0E-54	AA412408.1	EST_HUMAN	zu10a09.t1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731484 5'
10163	22801	36019	0.52	1.0E-54	AA412409.1	EST_HUMAN	zu10a09.t1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731484 5'
12710	24988		2.17	1.0E-54	AU077341.1	EST_HUMAN	AU077341 Sugano cDNA library Homo sapiens cDNA clone Zv6C880 similar to 5'-end region of Human gamma-glutamyl transpeptidase mRNA, 5 end
10257	22905	36115	0.94	9.0E-55	BE081469.1	EST_HUMAN	QV2-BT0635-180400-143-112 BT0635 Homo sapiens cDNA
1282	14041		1.09	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
1295	14044		2.63	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
11151	23818		1.97	8.0E-55	AW408714.1	EST_HUMAN	fr02a02.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2860807 5'
1059	13817	28479	0.77	7.0E-55	R08346.1	EST_HUMAN	yf26a04.t1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:127898 5' similar to SP:C561_BOVIN P10897 CYTOCHROME:
8703	21395		0.8	7.0E-55	AW103839.1	EST_HUMAN	xd76c02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603522 3' similar to TR-O60365
8080	21769	34932	1.28	7.0E-55	AA889581.1	EST_HUMAN	af28a11.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1407280 3'
9115	21803	34968	2.16	7.0E-55	AU139809.1	EST_HUMAN	AU139809 PLACE1 Homo sapiens cDNA clone PLACE1011578 5'
11171	23838	37120	10.32	7.0E-55	AI561056.1	EST_HUMAN	tc28f08.x1 NCI_CGAP_UH Homo sapiens cDNA clone IMAGE:2210249 3'
11171	23838	37121	10.32	7.0E-55	AI561056.1	EST_HUMAN	tc28f08.x1 NCI_CGAP_UH Homo sapiens cDNA clone IMAGE:2210249 3'
12682	25303		2.5	7.0E-55	H23396.1	EST_HUMAN	ym57g07.t1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:62444 5'
11498	24089	37412	2.45	6.0E-55	AB040834.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
1763	14505	27205	1.19	5.0E-55	AA704971.1	EST_HUMAN	z95b09.s1 Soares fetal liver spleen 1NFLS S1 Homo sapiens cDNA clone IMAGE:462817 3'
1763	14505	27206	1.19	5.0E-55	AA704971.1	EST_HUMAN	z95b09.s1 Soares fetal liver spleen 1NFLS S1 Homo sapiens cDNA clone IMAGE:462817 3'
4720	17452	30086	1.81	5.0E-55	AW206021.1	EST_HUMAN	UI-H-B11-efy-g-09-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2723538 3'
6446	19214	32211	1.65	5.0E-55	4502240	NT	Homo sapiens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
6446	19214	32212	1.65	5.0E-55	4502240	NT	Homo sapiens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
6588	25094	32340	1.34	5.0E-55	4505952	NT	Homo sapiens paroxonase 2 (PON2) mRNA, and translated products
6588	25094	32341	1.34	5.0E-55	4505952	NT	Homo sapiens paroxonase 2 (PON2) mRNA, and translated products
6937	19872	32718	0.83	5.0E-55	7382477	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 5, mRNA
7195	19881	32955	0.7	5.0E-55	11434422	NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA
7893	20588	33718	0.72	5.0E-55	11528491	NT	Homo sapiens BCL2-associated atrophinase (BAG1), mRNA
8942	21633	34777	3.63	5.0E-55	4506302	NT	Homo sapiens protein tyrosine phosphatase, receptor type, alpha polypeptide (PTPRA) mRNA
9219	21898		1.75	5.0E-55	BE084386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
9937	22585	35786	1.77	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIAA0811 protein, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9937	22685	35787	1.77	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10122	22770	35984	2.48	5.0E-55	5453785	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
12137	24628		2.73	5.0E-55	11417972	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
667	13434	28076	65.4	4.0E-55	4826973	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM1A1) mRNA
1421	14169	28953	1.78	4.0E-55	7661713	NT	Homo sapiens predicted osteoblast protein (GS3786), mRNA
1421	14169	28954	1.78	4.0E-55	7661713	NT	Homo sapiens predicted osteoblast protein (GS3786), mRNA
1504	14250		1.7	4.0E-55	BF061411.1	EST_HUMAN	752b10.x1 Soares NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3390043 3' similar to contains L1.13 L1 repetitive element;
2019	14754	27482	0.97	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2019	14754	27483	0.97	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2079	14811	27542	6.47	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (80K) (DGKG) mRNA
2079	14811	27543	6.47	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (80K) (DGKG) mRNA
2308	15033	27771	2.29	4.0E-55	4507794	NT	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1) mRNA
2696	16310		1.21	4.0E-55	AL271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
8242	20936		8.37	4.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11194	23859		2.3	4.0E-55	W28189.1	EST_HUMAN	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12057	24674		3.05	4.0E-55	BF303941.1	EST_HUMAN	60188575F2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4120338 5'
11998	24536		1.5	3.0E-55	BE178519.1	EST_HUMAN	PM1-HT0603-060300-001-g08 HT0603 Homo sapiens cDNA
12721	24983		1.85	3.0E-55	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
368	13164	26607	1.88	2.0E-55	X57147.1	NT	Human endogenous retrovirus phiE.1 (ERV9)
539	1321		1.13	2.0E-55	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
634	13413	26049	13.70	2.0E-55	4507288	NT	Homo sapiens syntaxin-binding protein 1 (STXB1) mRNA, and translated products
4723	17455	30090	2.91	2.0E-55	BE178888.1	EST_HUMAN	CM1-HT0876-150800-357-g03 HT0876 Homo sapiens cDNA
7403	25113	33182	0.76	2.0E-55	AW501988.1	EST_HUMAN	ULHF-BNO-eka-f-06-0-UJr1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078275 5'
8963	21654	34804	0.52	2.0E-55	BF224452.1	EST_HUMAN	hr76h08.x1 NCJ CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134463 3'
8963	21654	34805	0.52	2.0E-55	BF224452.1	EST_HUMAN	hr76h08.x1 NCJ CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134463 3'
9058	21747		6.23	2.0E-55	AI002836.1	EST_HUMAN	am98h05.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1694185 3' similar to contains THR.L52 THR repetitive element;
9140	21828		0.72	2.0E-55	BE007959.1	EST_HUMAN	QV0-BNO147-280400-213-g05 BNO147 Homo sapiens cDNA
10870	23550	36798	1.95	2.0E-55	AI119344.1	EST_HUMAN	AU116344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
95	12821	25558	3.01	1.0E-55	4505080	NT	Homo sapiens mannose-6-phosphate receptor (cation dependent) (M6PR) mRNA
184	12997	25636	8.22	1.0E-55	U09823.1	NT	Oryzobolus curvulus New Zealand white elongation factor 1 alpha (Rabefla2) mRNA, complete cds
1127	13883	26543	3.53	1.0E-55	AB020710.1	NT	Homo sapiens mRNA for KIAA0803 protein, partial cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1943	14678	27391	1.58	1.0E-55	BE277861.1	EST_HUMAN	601120116F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2887027 5'
1943	14678	27392	1.58	1.0E-55	BE277861.1	EST_HUMAN	601120116F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2967027 5'
2324	15049		2.48	1.0E-55	6803174	NT	Homo sapiens SMA3 (SMA3), mRNA
2338	15528	27799	1.17	1.0E-55	AF000990.1	NT	Homo sapiens testis-specific Testis Transcript Y1 (TTY1) mRNA, partial cds
2521	15237	27976	9.05	1.0E-55	X13111.1	NT	Human mRNA for HLA-A11E, a MHC class I molecule (major histocompatibility complex)
2559	15273	28009	4.19	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
2559	15273	28010	4.19	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
2559	15273	28071	1.72	1.0E-55	L54057.1	NT	Homo sapiens CLP mRNA, partial cds
3970	16719	28353	4.28	1.0E-55	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C067
4262	17003	28635	1.26	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4882	17416		1.02	1.0E-55	N77281.1	EST_HUMAN	yv44g03.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:245620 5'
5410	18209	30917	0.97	1.0E-55	AF119856.1	NT	Homo sapiens PRO1851 mRNA, complete cds
6178	18955	31929	6.82	1.0E-55	11433048	NT	Homo sapiens hcd domain and RLD 2 (HERC2), mRNA
6178	18955	31930	6.82	1.0E-55	11433048	NT	Homo sapiens hcd domain and RLD 2 (HERC2), mRNA
7888	20583	33712	1.84	1.0E-55	11432894	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
7888	20583	33713	1.84	1.0E-55	11432894	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
7980	20675	33799	0.89	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
7980	20675	33800	0.89	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
10829	23511	36751	1.75	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
10829	23511	36752	1.75	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11425	23192	38423	2.53	1.0E-55	U50950.1	NT	Human infant brain unknown product mRNA, complete cds
11444	23211	38442	1.5	1.0E-55	T10045.1	EST_HUMAN	seq1575 b4HB3MA Cate-HAP-F1 Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F161 5' similar to similar to Chinese Hamster DHFR-coamplified protein mRNA
11569	24168	37482	2.95	1.0E-55	10567821	NT	Homo sapiens DNA-binding protein (LOC56242), mRNA
7265	18949	33028	1.83	9.0E-56	BE379074.1	EST_HUMAN	601237702F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3809552 5'
2737	15444	28182	5.32	7.0E-56	H19834.1	EST_HUMAN	yv62g03.r1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:173044 5' similar to contains THR repetitive element:
7540	20210	33309	1.67	7.0E-56	AW361213.1	EST_HUMAN	RC1-CT0252-231099-013-b07 CT0252 Homo sapiens cDNA
7540	20210	33310	1.67	7.0E-56	AW361213.1	EST_HUMAN	RC1-CT0252-231099-013-b07 CT0252 Homo sapiens cDNA
1687	14431	27127	1.78	5.0E-56	AW697712.1	EST_HUMAN	RC3-BN0053-170200-011-h01 BN0053 Homo sapiens cDNA
9059	21748	34808	0.86	5.0E-56	AW015507.1	EST_HUMAN	ULH-B10p-eau-e-05-Q-U1.s1 NCI_OGAP Sub2 Homo sapiens cDNA clone IMAGE:2710544 3'
10286	22834		1.61	5.0E-56	W28189.1	EST_HUMAN	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12220	25359	30610	2	5.0E-56	H55099.1	EST_HUMAN	CHIR220038 Chromosome 22 exon Homo sapiens cDNA clone C22_55 5'
26	12854	25469	8.68	4.0E-56	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
26	12854	25470	8.58	4.0E-56	AF141348.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
2173	14802		2.69	4.0E-56	BF207598.1	EST_HUMAN	601862059F1 NIH_MGC_63 Homo sapiens cDNA clone IMAGE:4081551 5'
2712	15419	28157	7.28	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2712	15419	28158	7.28	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2815	13287	25829	3.49	4.0E-56	AF003528.1	NT	Homo sapiens X-linked arylidic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
2838	15331	28074	1.48	4.0E-56	AF032488.1	EST_HUMAN	wb0808.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2305181 3' similar to SW:DCOR_MUSPA
2838	15331	28075	1.48	4.0E-56	AF032488.1	EST_HUMAN	P27119 ORNITHINE DECARBOXYLASE;
6164	18941	31812	6.01	4.0E-56	AF217508.1	NT	wb0808.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2305181 3' similar to SW:DCOR_MUSPA
6164	18941	31813	6.01	4.0E-56	AF217508.1	NT	P27119 ORNITHINE DECARBOXYLASE;
10403	23049	36268	2.02	4.0E-56	AF043349.1	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
10841	23523	36764	8.88	4.0E-56	AF043349.1	EST_HUMAN	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
10841	23523	36765	8.88	4.0E-56	AF043349.1	EST_HUMAN	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
1319	14068	28742	4.17	3.0E-56	8924028	NT	Homo sapiens lymphocyte-specific protein 1 (LSP-1) gene, LSP-1-7 allele, partial cds
3122	15887	28527	1.54	3.0E-56	AA325828.1	EST_HUMAN	hm55g12.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2183048 3'
3122	15887	28528	1.54	3.0E-56	AA325828.1	EST_HUMAN	hm55g12.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2183048 3'
3815	16507		1.61	3.0E-56	AF055066.1	NT	Homo sapiens hypodermal protein PRO1304 (PRO1304), mRNA
4355	17083	29728	1.43	3.0E-56	7667042	NT	EST28889 Cerebellum II Homo sapiens cDNA 5' end
4380	17127	29759	4.27	3.0E-56	AL163268.2	NT	EST28889 Cerebellum II Homo sapiens cDNA 5' end
4534	17269	29802	2.34	3.0E-56	5802085	NT	Homo sapiens MHC class 1 region
5598	18393	31302	2.12	3.0E-56	4759163	NT	Homo sapiens Down syndrome candidate region 1 (DSOR1), mRNA
5598	18393	31303	2.12	3.0E-56	4759163	NT	Homo sapiens chromosome 21 segment HS21C068
6775	19519	32547	7.03	3.0E-56	11421124	NT	Homo sapiens superkiller viralidic activity 2 (S. cerevisiae homolog)-like (SKIV2L), mRNA
7223	19808	32881	1.15	3.0E-56	4504970	NT	Homo sapiens sparc/osteonectin, cwcx and kegal-like domains proteoglycan (testican) (SPOCK) mRNA
7223	19808	32882	1.15	3.0E-56	4504970	NT	Homo sapiens sparc/osteonectin, cwcx and kegal-like domains proteoglycan (testican) (SPOCK) mRNA
8715	21407	34550	4.68	3.0E-56	11418704	NT	Homo sapiens lysosomal-associated membrane protein 2 (LAMP2), mRNA
9713	22364	35562	0.85	3.0E-56	D63479.2	NT	Homo sapiens LIM binding domain 2 (LDB2) mRNA
10379	23025	36240	1.38	3.0E-56	11434956	NT	Homo sapiens LIM binding domain 2 (LDB2) mRNA
10842	23333	36571	1.71	3.0E-56	AB042556.1	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
11284	23845	37239	6.37	3.0E-56	5802013	NT	Homo sapiens mRNA for KIAA0146 protein, partial cds
							Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
							Homo sapiens mRNA, similar to rat myomegalin, complete cds
							Homo sapiens nuclear pore complex interacting protein (NP1P), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11284	23946	37240	6.37	3.0E-56	5902013	NT	Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA
11673	24268	37580	1.74	3.0E-56	U46900.1	NT	Homo sapiens NACP/alpha-synuclein gene, exon 5
11673	24268	37581	1.74	3.0E-56	U46900.1	NT	Homo sapiens NACP/alpha-synuclein gene, exon 5
12095	24597	31083	1.52	3.0E-56	11434878	NT	Homo sapiens caveolin 3 (CAV3), mRNA
12095	24597	31084	1.52	3.0E-56	11434878	NT	Homo sapiens caveolin 3 (CAV3), mRNA
511	13295		1.7	2.0E-56	AA198818.1	EST_HUMAN	zq52a08.s1 Stratagene neuroepithelium (#837231) Homo sapiens cDNA clone IMAGE:645208 3'
716	15550	26141	1.05	2.0E-56	BE084386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
716	15550	26142	1.05	2.0E-56	BE084386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
2087	15753	28399	1.18	2.0E-56	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3523	16279	28934	1.64	2.0E-56	AV703184.1	EST_HUMAN	AV703184 ADB Homo sapiens cDNA clone ADBCFG10 5'
6890	19583	32731	1.47	2.0E-56	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
959	13724		1.84	1.0E-56	AF190830.1	NT	Macaca fascicularis protein tyrosine phosphatase (PRL-1) mRNA, complete cds
3664	16417	29058	2.15	1.0E-56	AW589833.1	EST_HUMAN	hg23c11.x1 NC1 CGAP_G08 Homo sapiens cDNA clone IMAGE:2846452 3'
3664	16417	29057	2.15	1.0E-56	AW589833.1	EST_HUMAN	hg23c11.x1 NC1 CGAP_G08 Homo sapiens cDNA clone IMAGE:2846452 3'
4972	17686	30303	0.99	1.0E-56	AI905162.1	EST_HUMAN	QV-BT077-130188-079 BT077 Homo sapiens cDNA
5118	17898	30453	0.97	1.0E-56	6881002	NT	Mus musculus cytoplasmic polyadenylation element binding protein (Cpeb), mRNA
6724	19558	32569	0.57	1.0E-56	AW609520.1	EST_HUMAN	MF3-ST0203-180100-208-H02 ST0203 Homo sapiens cDNA
9855	22505		0.59	1.0E-56	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21O003
9848	22598	35800	1.71	1.0E-56	AW845987.1	EST_HUMAN	RC2-CT0163-220989-001-E02 CT0163 Homo sapiens cDNA
611	13389		2.52	9.0E-57	AW880885.1	EST_HUMAN	QV0-OT0033-070300-152-H03 OT0033 Homo sapiens cDNA
4180	16920	29548	1.14	9.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4180	16920	29549	1.14	9.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
11183	23948	37134	2.17	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11183	23948	37135	2.17	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11508	24107	37420	1.48	9.0E-57	AB020981.1	NT	Homo sapiens mRNA for cyclin B2, complete cds
280	13096	25738	3.01	8.0E-57	AW818405.1	EST_HUMAN	QV4-ST0234-181189-037-005 ST0234 Homo sapiens cDNA
864	13633	26303	6.96	8.0E-57	AW284689.1	EST_HUMAN	xr05d10.x1 NC1 CGAP_Bm63 Homo sapiens cDNA clone IMAGE:2759251 3' similar to gbtU05875
1809	14549	27284	1.51	8.0E-57	AA486108.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR BETA CHAIN PRECURSOR (HUMAN);
3378	16135	28791	0.98	8.0E-57	4758279	NT	z651b12.1 Soares testis NHT Homo sapiens cDNA clone IMAGE:757151 5'
3378	16135	28792	0.98	8.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4852	17582	30205	1.3	8.0E-57	4557830	NT	Homo sapiens EphA4 (EPHA4) mRNA
5161	25276	30728	3.29	8.0E-57	11418185	NT	Homo sapiens glutamate receptor, ionotropic, AMPA 4 (GRIA4) mRNA
6303	18078	32063	1.85	8.0E-57	AB020705.1	NT	Homo sapiens acetylase 2, mitochondrial (ACO2), mRNA
							Homo sapiens mRNA for KIAA0898 protein, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6372	19141	32137	12.87	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0980 protein, partial cds
6372	19141	32138	12.87	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0980 protein, partial cds
7349	20030	33107	0.64	8.0E-57	7682283	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7648	20312	33423	1.7	8.0E-57	AB020844.1	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
7648	20312	33424	1.7	8.0E-57	AB020844.1	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
11460	17889	30487	3.29	8.0E-57	8823349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
12460	24828	31028	2.74	8.0E-57	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12473	24828	31028	1.69	8.0E-57	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12820	25060		2.07	8.0E-57	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2639	15350	28093	1.71	7.0E-57	7657592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
2639	15350	28094	1.71	7.0E-57	7657592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
3244	16006	28655	0.9	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3244	16006	28656	0.9	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3265	16027	28677	1.08	7.0E-57	6005979	NT	Homo sapiens Kruppel-like factor 8 (KLF8), mRNA
3858	16608	29246	1.39	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p14K230) mRNA, complete cds
3858	16608	29247	1.39	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p14K230) mRNA, complete cds
4398	17135		0.95	7.0E-57	AF020503.1	NT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHIT) gene, exon 5
4730	17482	30089	0.95	7.0E-57	U11059.2	NT	Homo sapiens large conductance calcium- and voltage-dependent potassium channel alpha subunit (MaxIK) mRNA, complete cds
12785	25310		2.63	5.0E-57	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
3738	18489	29125	1.67	4.0E-57	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
786	13558	28220	0.78	3.0E-57	4507798	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
1308	14056		16.24	3.0E-57	AA230278.1	EST_HUMAN	no1307.61 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:1008037 similar to SW:RS10_HUMAN
2380	15111	27648	2.89	3.0E-57	AA348335.1	EST_HUMAN	P49783 40S RIBOSOMAL PROTEIN S10. ;
							EST154770 Hippocampus II Homo sapiens cDNA 5' end
2707	15414	28151	0.95	3.0E-57	BE676822.1	EST_HUMAN	733b10.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3298443 3' similar to WP:Y47H9C.2 CE20268 ;
2707	15414	28152	0.95	3.0E-57	BE676822.1	EST_HUMAN	733b10.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3298443 3' similar to WP:Y47H9C.2 CE20268 ;
3550	16305	28955	1.74	3.0E-57	AF232708.1	NT	Homo sapiens cell-line tsA201a chloride ion current inducer protein 1 (Cin) gene, complete cds
3685	16438		62.34	3.0E-57	AW853964.1	EST_HUMAN	RC3-CT0254-110300-027-c10 CT0254 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5639	18721	31680	1.24	3.0E-57	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
6033	18813	31773	3.23	3.0E-57	BE796537.1	EST_HUMAN	601569896F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
8044	20738	33871	3.77	3.0E-57	W28130.1	EST_HUMAN	4216 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
8070	20784	33892	2.16	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11658 (FLJ11658), mRNA
8070	20784	33893	2.16	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11658 (FLJ11658), mRNA
8179	20873	34008	0.7	3.0E-57	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
8328	21021	34167	0.73	3.0E-57	J05262.1	NT	Human fattyacyl pyrophosphate synthetase mRNA, complete cds
8757	21449	34596	4.17	3.0E-57	AU117659.1	EST_HUMAN	AU117659 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'
9149	21880	35047	1.03	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11658 (FLJ11658), mRNA
9149	21880	35048	1.03	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11658 (FLJ11658), mRNA
10825	23508	36747	2.85	3.0E-57	AW248374.1	EST_HUMAN	2820473.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2820473 5'
12101	25381	30616	8.38	3.0E-57	W23871.1	EST_HUMAN	zb45d11.1 Scores_fetal Jung_NBHL 19W Homo sapiens cDNA clone IMAGE:306549 5'
12460	25281		2.32	3.0E-57	AW178576.1	EST_HUMAN	RCO-HT0112-080999-001-C08 HT0112 Homo sapiens cDNA
12623	24928	31010	1.48	3.0E-57	AJ003849.1	EST_HUMAN	AJ003849 Selected chromosome 21 cDNA library Homo sapiens cDNA clone MIP10-1L1
1487	14234	26919	1.39	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1487	14234	26920	1.39	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3432	16188		1.24	2.0E-57	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3910	18680	28301	0.79	2.0E-57	BE073284.1	EST_HUMAN	MRO-BT0551-080300-103-b03 BT0551 Homo sapiens cDNA
4474	17209	29834	6.73	2.0E-57	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
5582	18379		1.84	2.0E-57	AA016131.1	EST_HUMAN	za31c05.1 Scores retina N2b4-HR Homo sapiens cDNA clone IMAGE:360584 5' similar to contains L1.13 L1 repetitive element;
5943	18725		33.81	2.0E-57	BF115266.1	EST_HUMAN	7n80704.x1 NCL_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3570968 3' similar to contains TAR1.11 MER22 repetitive element;
6067	18846	31810	0.66	2.0E-57	11431281	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Gys), member 22 (SCYA22), mRNA
8529	21221	34363	1.08	2.0E-57	AF045452.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
9746	22397	35602	1.89	2.0E-57	AF057722.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exons 3 and 4
10525	23171	36398	0.49	2.0E-57	11434330	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
10525	23171	36399	0.49	2.0E-57	11434330	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
11238	23801	37189	2.42	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
11238	23901	37190	2.42	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
8593	21285		3.82	1.0E-57	BE043031.1	EST_HUMAN	hc32a08.x1 NCL_CGAP_Ju24 Homo sapiens cDNA clone IMAGE:3039082 3' similar to TR-O00246 O00246 HYPOTHETICAL 9.3 KD PROTEIN;
12249	24696		5.08	1.0E-57	AW470791.1	EST_HUMAN	ha33a06.x1 NCL_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875469 3' similar to contains THR.b3 THR repetitive element;

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5591	18387	31287	0.99	8.0E-58	AA297847.1	EST_HUMAN	EST11348 Uterus Homo sapiens cDNA 5' end
12516	24855	31015	1.55	8.0E-58	BE395061.1	EST_HUMAN	601309465F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
575	13355		1.78	8.0E-58	BE868715.1	EST_HUMAN	601445948F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3650211 5'
639	13418	26055	4.18	8.0E-58	A1798376.1	EST_HUMAN	1f34b07.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR-O15475 O15475
639	13418	26055	4.18	8.0E-58	A1798376.1	EST_HUMAN	UNNAMED HERV-H PROTEIN;
1849	14587	27301	2.37	8.0E-58	11494921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
1849	14587	27302	2.37	8.0E-58	11434921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
2874	15740		2.32	8.0E-58	7706132	NT	Homo sapiens DHHC1 protein (LOC51304), mRNA
10762	23446		5.87	7.0E-58	5174542	NT	Homo sapiens MADS box transcription enhancer factor 2, polypeptide B (myocyte enhancer factor 2B) (MEF2B) mRNA
10847	23528	36773	3.6	7.0E-58	AW504109.1	EST_HUMAN	U1HF-BNO-ali-g-10-0-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078887 5'
10847	23528	36774	3.6	7.0E-58	AW504109.1	EST_HUMAN	U1HF-BNO-ali-g-10-0-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078887 5'
2251	14978	27718	1.02	8.0E-58	BE395061.1	EST_HUMAN	601309465F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
2375	15097	27837	3.78	8.0E-58	AU130689.1	EST_HUMAN	AU130689 NT2RP3 Homo sapiens cDNA clone NT2RP3001263 5'
2802	15668	28316	1.2	8.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
2802	15668	28317	1.2	8.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
6078	18957	31824	1.01	8.0E-58	AF100911.1	NT	Homo sapiens chemokine MIP-2 gamma (MIP-2 gamma) mRNA, complete cds
10208	22856	36072	0.79	8.0E-58	11434746	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA
12347	24754		1.58	8.0E-58	11626291	NT	Homo sapiens hypodermal protein FLJ20454 (FLJ20454), mRNA
283	13099	25740	3.79	5.0E-58	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
694	13469	26116	5.41	5.0E-58	BE763384.1	EST_HUMAN	RC4-NT0057-160600-016-b05 NT0057 Homo sapiens cDNA
1172	13926	26589	2.96	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1172	13926	26590	2.96	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1173	13926	26589	2.76	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1173	13926	26590	2.76	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
3317	16077	28727	4.32	5.0E-58	AA988183.1	EST_HUMAN	cr98e07.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1603808 3'
4229	16970	29594	0.92	5.0E-58	AI636745.1	EST_HUMAN	1s89e07.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2238468 3' similar to SW:PRO2_ACACA
5641	18338		2.32	5.0E-58	11496282	NT	P19984 PROFILIN II;
6065	18863	31829	6.86	5.0E-58	H23072.1	EST_HUMAN	Homo sapiens placenta-specific 1 (PLAC1), mRNA
							ym51h07.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:52071 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6301	19074	32060	0.95	5.0E-58	AL183285.2	NT	Homo sapiens chromosome 21 segment HS21C085
6379	19148	32147	1.61	5.0E-58	11421330	NT	Homo sapiens apical protein, Xenopus laevis-like (APXL), mRNA
6680	19597	32635	0.68	5.0E-58	AF051334.1	NT	Homo sapiens ribitin (NBS) mRNA, complete cds
6680	19597	32636	0.68	5.0E-58	AF051334.1	NT	Homo sapiens ribitin (NBS) mRNA, complete cds
7006	19698	32752	0.73	5.0E-58	4985400	NT	Homo sapiens holochochrome c synthase (cytochrome c heme-lyase) (HCCS) mRNA
7889	20564	33691	7.89	5.0E-58	8922683	NT	Homo sapiens hypothetical protein FLJ10828 (FLJ10828), mRNA
8251	20845	34083	0.7	5.0E-58	AB046837.1	NT	Homo sapiens mRNA for KIAA1617 protein, partial cds
9239	21918	35089	0.68	5.0E-58	6231227	NT	Homo sapiens ribonuclease 6 precursor (RNASE6PL) mRNA
9239	21918	36090	0.68	5.0E-58	5231227	NT	Homo sapiens ribonuclease 6 precursor (RNASE6PL) mRNA
9757	22408	35614	0.88	5.0E-58	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Ptp18 (PRP18), mRNA
10023	22671	35887	1.78	5.0E-58	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10300	22947	36161	0.83	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0811 protein, partial cds
10300	22947	36162	0.83	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0811 protein, partial cds
11819	24403	37740	2.89	5.0E-58	11431079	NT	Homo sapiens chimera (chimera) 1 (CHIN1), mRNA
12071	25305		1.81	5.0E-58	11526293	NT	Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), mRNA
12612	26330		1.5	5.0E-58	11426423	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
12732	26001		2.67	5.0E-58	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
364	13162	25804	4.5	4.0E-58	4502302	NT	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein) (ATP5O) mRNA
779	13551	26212	0.88	4.0E-58	4504684	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
1452	14169	26883	1.09	4.0E-58	4503648	NT	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B) (F9) mRNA
2637	15349	28091	1.7	4.0E-58	U36261.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 3
3319	16079	28729	1.03	4.0E-58	D16470.1	NT	Human mRNA, Xq terminal portion
3723	16476	29113	1.25	4.0E-58	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
11315	23974	37275	7.06	4.0E-58	11424059	NT	Homo sapiens E1B-55kDa-associated protein 5 (E1B-AP5), mRNA
328	13127		2.57	3.0E-58	R17879.1	EST_HUMAN	Yg10e02.11 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31693 5'
1368	14116	26791	2.36	3.0E-58	4759981	NT	Homo sapiens peptide YY (PYY) mRNA
3174	15937	28585	2.78	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4308943 5'
3174	15937	28588	2.78	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4308943 5'
6167	18944	31915	0.63	3.0E-58	BE089509.1	EST_HUMAN	QV0-BT0702-170400-194-09 BT0702 Homo sapiens cDNA
6352	19122	32114	1.43	3.0E-58	F07056.1	EST_HUMAN	HSC1TG081 normalized infant brain cDNA Homo sapiens cDNA clone c-1tg08
6544	19309	32314	1.4	3.0E-58	AV712977.1	EST_HUMAN	AV712977 DCA Homo sapiens cDNA clone DCAAZG04 5'
919	13686	26350	11.9	2.0E-58	AF068624.1	NT	Homo sapiens 5-aminolevulinate synthase 2 (ALAS2) gene, complete cds

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							Top Hit Descriptor
1267	14016		10	2.0E-58	BE208532.1	EST_HUMAN	bs0807.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823733 5' similar to gb:58391 60S RIBOSOMAL PROTEIN L8 (HUMAN); gb:XB1987 M.musculus mRNA for TAX responsive element binding protein (MOUSE);
5273	25066	30708	3.4	2.0E-58	BE907188.1	EST_HUMAN	601499861F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901811 5'
5273	25066	30734	3.4	2.0E-58	BE907188.1	EST_HUMAN	601499861F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901811 5'
5668	18748	31709	1.12	2.0E-58	BF513488.1	EST_HUMAN	UHH-BW1-ams-g-11-0-U1.st NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071060 3'
							am57602.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539674 3' similar to WP:ZK328.1 CE05065 UBQUITIN CONJUGATING ENZYME; RECOVERIN SUBFAMILY OF EF-HAND CALCIUM BINDING PROTEIN;
6031	18811	31771	1.88	2.0E-58	A1124874.1	EST_HUMAN	
6062	18841	31803	0.8	2.0E-58	R92567.1	EST_HUMAN	y08h08.r1 Soares fetal liver spleen 1NFL8 Homo sapiens cDNA clone IMAGE:196378 5'
6828	18489	32511	1.12	2.0E-58	A1291407.1	EST_HUMAN	qm84c01.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1895424 3'
7056	18747	32809	2.83	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Ernd180 (ENDO180) mRNA, complete cds
7056	18747	32810	2.83	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Ernd180 (ENDO180) mRNA, complete cds
10641	23332	36570	21.77	2.0E-58	BF307745.1	EST_HUMAN	601890812F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131691 5'
10885	23565	36813	2.43	2.0E-58	AW872841.1	EST_HUMAN	hm25f08.x1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:3013671 3'
705	13480	28128	0.86	1.0E-58	M65134.1	NT	Human complement component C5 mRNA, 3'end
1048	19805	28464	2.41	1.0E-58	6274549	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9 (22kD, B22) (NDUFB9), mRNA
1304	14053	28726	1.61	1.0E-58	AW957182.1	EST_HUMAN	EST389252 MAGE resequences, MAGD Homo sapiens cDNA
1304	14053	28727	1.61	1.0E-58	AW957182.1	EST_HUMAN	EST389252 MAGE resequences, MAGD Homo sapiens cDNA
1376	14124	28788	1.13	1.0E-58	AJ238083.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
2805	15510	28251	2.37	1.0E-58	4759169	NT	Homo sapiens steroid regulatory element binding transcription factor 2 (SRBF2) mRNA
2834	14738	27462	1.6	1.0E-58	5174444	NT	Homo sapiens G protein-coupled receptor 68A (GPR68A) mRNA
3526	16282	28838	0.88	1.0E-58	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3526	16282	28839	0.88	1.0E-58	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
4913	17641	30258	4.75	1.0E-58	A1141063.1	EST_HUMAN	az49h01.x1 Soares NIH-IMPu_S1 Homo sapiens cDNA clone IMAGE:1678128 3'
5761	18543	31465	1.31	1.0E-58	BE081880.1	EST_HUMAN	RC1-B70254-280100-015-e01 B70254 Homo sapiens cDNA
6784	19508	32533	0.8	1.0E-58	11422031	NT	Homo sapiens hypothetical protein (LOC51280), mRNA
8013	20708		0.51	1.0E-58	AW973537.1	EST_HUMAN	EST385637 MAGE resequences, MAGM Homo sapiens cDNA
8768	21460	34609	0.86	1.0E-58	4505314	NT	Homo sapiens myomesin (M-protein) 2 (185kD) (MYOM2), mRNA
8880	21571	34714	0.81	1.0E-58	AV751001.1	EST_HUMAN	AV751001 NPC Homo sapiens cDNA clone NPCACH09 5'
8979	21669	34818	0.86	1.0E-58	AA412397.1	EST_HUMAN	z89f06.r1 Soares testis NIH-T Homo sapiens cDNA clone IMAGE:730497 5'
8979	21669	34819	0.86	1.0E-58	AA412397.1	EST_HUMAN	z89f06.r1 Soares testis NIH-T Homo sapiens cDNA clone IMAGE:730497 5'
10086	22734	35849	1.21	1.0E-58	11432994	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA

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11780	24371		2.11	1.0E-58	X63392.1	NT	H.sapiens immunoglobulin kappa light chain variable region L14
11816	24404	37739	1.57	1.0E-58	D61405.1	NT	Human MSI-F3 gene, exon10
2225	14953	27691	29.49	8.0E-58	4507378	NT	Homo sapiens TATA box binding protein (TBP) mRNA
8080	20774	33904	2.49	8.0E-58	A1761963.1	EST_HUMAN	Wf50408.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384171 3'
173	15536		1.74	6.0E-58	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882086 5'
8144	20838	33970	0.61	6.0E-58	A1750970.1	EST_HUMAN	cn08h02.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn08h02 random
1748	14480	27189	1.32	5.0E-58	AW157281.1	EST_HUMAN	au63h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783865 3' similar to TR:075786 075786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.;
1748	14480	27189	1.32	5.0E-58	AW167281.1	EST_HUMAN	au63h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783865 3' similar to TR:075786 075786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.;
3124	15869	28530	6.98	5.0E-58	A1807484.1	EST_HUMAN	Wf48c11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2358836 3'
4810	17345	29978	6.55	5.0E-58	X63497.1	NT	H.sapiens DNA for ZNF80-linked ERV9 long terminal repeat
6882	17868	30526	7.5	5.0E-58	AW162304.1	EST_HUMAN	au68c07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781228 3' similar to contains element TAR1 repetitive element ;
8705	21367	34544	1.04	5.0E-58	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA
9804	22257	35443	1.82	5.0E-58	AV762869.1	EST_HUMAN	AV762869 MDS Homo sapiens cDNA clone MDSEIC12 5'
10923	23506	36745	3.78	5.0E-58	11434908	NT	Homo sapiens hypothetical protein (LOC57143), mRNA
776	13548	26210	1.66	4.0E-58	D80008.1	NT	Human mRNA for KIAA0184 gene, partial cds
5450	18249	31138	1.03	4.0E-58	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural placophilin-related arm-repeat protein) (CTNND2), mRNA
12203	25238		1.91	4.0E-58	AF057720.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, promoter region and exon 1
9	12836		6.13	3.0E-58	AW985524.1	EST_HUMAN	EST377582 IMAGE resequences, MAGI Homo sapiens cDNA
219	13030	25096	4.58	3.0E-58	7662247	NT	Homo sapiens KIAA0680 gene product (KIAA0680), mRNA
1705	14448	27147	8.2	3.0E-58	4505860	NT	Homo sapiens plasminogen activator, tissue (PLATe) mRNA
1706	14448	27148	8.2	3.0E-58	4505860	NT	Homo sapiens plasminogen activator, tissue (PLATe) mRNA
2125	14856	27595	5.59	3.0E-58	AB029035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
2125	14856	27596	5.59	3.0E-58	AB029035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
3126	15891	28534	3.77	3.0E-58	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3126	15891	28535	3.77	3.0E-58	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3806	16557	29189	1.45	3.0E-58	4508044	NT	Homo sapiens zona pellucida glycoprotein 2 (sperm receptor) (ZP2) mRNA
4638	17372	30007	0.98	3.0E-58	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4738	17470	30107	0.92	3.0E-58	4758329	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY) mRNA

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4789	17520	30143	1.57	3.0E-59	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
4890	17713		0.97	3.0E-59	M85981.1	NT	Human prothymosin converting enzyme (NEC2) gene, exon 2
6128	18904	31872	2.12	3.0E-59	8824074	NT	Homo sapiens hypothetical protein PRO1741 (PRO1741), mRNA
7259	18943	33020	1.94	3.0E-59	5454137	NT	Homo sapiens nuclear receptor co-repressor 1 (NCOR1), mRNA
7832	20527	33653	1.16	3.0E-59	X12553.1	NT	Human mRNA for dbi proto-oncogene
7832	20527	33654	1.16	3.0E-59	X12553.1	NT	Human mRNA for dbi proto-oncogene
8844	22592	35784	0.87	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
8844	22592	35785	0.87	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
12327	24746		6.04	3.0E-59	11417866	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
7693	20357		0.71	2.0E-59	BF373329.1	EST_HUMAN	MRO-F1D144-250700-002-at10 FT0144 Homo sapiens cDNA
9537	22180		6.32	2.0E-59	AA309774.1	EST_HUMAN	EST180933 Jurkat T-cells V Homo sapiens cDNA 5' end
10425	23071		1.19	2.0E-59	BF365554.1	EST_HUMAN	ROO-NT0036-100700-032-a07 NT0036 Homo sapiens cDNA
10734	23421	36863	2.6	2.0E-59	AW410898.1	EST_HUMAN	fn07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2861654 5'
10734	23421	36864	2.6	2.0E-59	AW410898.1	EST_HUMAN	fn07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2861654 5'
11311	23970	37274	1.31	2.0E-59	H81604.1	EST_HUMAN	y4ch09.j1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:208673 5' similar to SP-POL_FENV1 P31782 POL_POLYPROTEIN ;
12091	24595	31128	2.93	2.0E-59	A1831809.1	EST_HUMAN	ws36672.x1 NC1_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300182 3' similar to TR-Q86542
12805	25283	30719	4.65	2.0E-59	L11645.1	NT	Q86542 RTVL-H PROTEIN. ; contains LTR7.b1 LTR7 repetitive element ;
159	12974		3.03	1.0E-59	BE298411.1	EST_HUMAN	Homo sapiens alpha-tubulin mRNA, complete cds
1529	14276	26864	0.93	1.0E-59	T92522.1	EST_HUMAN	60117675/F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3631927 5'
2412	15133	27870	1.19	1.0E-59	D11456.2	NT	y25509.j1 Strategene lung (#837210) Homo sapiens cDNA clone IMAGE:118768 5' similar to SP-S21348
2412	15133	27871	1.19	1.0E-59	D11456.2	NT	S21348 HYPOTHETICAL PROTEIN 4- ;
2823	15335		2.47	1.0E-59	AA748468.1	EST_HUMAN	Homo sapiens Xdha mRNA for xanthine dehydrogenase, complete cds
7462	20135	33227	1.08	1.0E-59	AJ130894.1	NT	Homo sapiens Xdha mRNA for xanthine dehydrogenase, complete cds
7617	20263	33392	0.97	1.0E-59	BE256814.1	EST_HUMAN	60111951/F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352682 5'
7617	20263	33393	0.97	1.0E-59	BE256814.1	EST_HUMAN	60111951/F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352682 5'
9285	22039	35210	0.86	1.0E-59	11419630	NT	Homo sapiens zinc finger protein 275 (ZNF275), mRNA
9504	22157	35337	0.54	1.0E-59	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
9504	22157	35338	0.54	1.0E-59	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
10760	20135	33227	12.88	1.0E-59	AJ130894.1	NT	Homo sapiens mRNA for transcription factor
747	13520	26176	0.85	8.0E-60	AW977845.1	EST_HUMAN	EST388849 IMAGE resequences, MAGO Homo sapiens cDNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1465	14202	26886	2.85	8.0E-60	4759159	NT	Homo sapiens small nuclear ribonucleoprotein D3 polypeptide (18kD) (SNRPD3) mRNA
2169	14898	27632	3.6	8.0E-60	5174858	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
2169	14898	27633	3.6	8.0E-60	5174858	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
5892	18677	31623	1.12	8.0E-60	AB023004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6411	19179	32178	1.07	8.0E-60	S83182.1	NT	hyaluronan-binding protein=heparocyte growth factor activator homolog [human, plasma, mRNA, 2408 nt]
7608	20264	33372	1.07	8.0E-60	11420841	NT	Homo sapiens phosphatase cytidylyltransferase 1, choline, beta isoform (PCYT1B), mRNA
7865	20580	33687	2.28	8.0E-60	X17033.1	NT	Human mRNA for integrin alpha-2 subunit
8837	21529	34875	2.6	8.0E-60	11428949	NT	Homo sapiens S-arrestin; retina and pineal gland (arrestin) (SAG), mRNA
8371	21946	35118	0.88	8.0E-60	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9371	21946	35119	0.88	8.0E-60	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10473	23119	36348	0.59	8.0E-60	5453897	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10736	23423	36666	6.38	8.0E-60	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
10736	23423	36667	6.38	8.0E-60	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
737	13511	26169	3.61	7.0E-60	AF055068.1	NT	Homo sapiens MHC class 1 region
738	13511	26169	17.82	7.0E-60	AF055068.1	NT	Homo sapiens MHC class 1 region
796	13588	26228	0.88	7.0E-60	4504834	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
2124	14855	27694	1.08	7.0E-60	AF077188.1	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
2788	15493	28233	1.53	7.0E-60	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
4158	16898	29527	2.56	7.0E-60	4505488	NT	Homo sapiens ornithine decarboxylase 1 (ODC1) mRNA
8307	21974	35149	4.02	7.0E-60	H58041.1	EST_HUMAN	Yr1204.L1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to cortals
11337	24027	37331	2.11	7.0E-60	H58041.1	EST_HUMAN	Yr1204.L1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to cortals
2177	14906	27639	1.08	6.0E-60	BE984874.2	EST_HUMAN	LTR5 repetitive element;
8336	21029		10.5	8.0E-60	H52456.1	EST_HUMAN	Yr78109.L1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:3886089 3'
82	12908	25545	2.29	5.0E-60	AI807917.1	EST_HUMAN	OFR repetitive element;
82	12908	25546	2.29	5.0E-60	AI807917.1	EST_HUMAN	wf52c07.x1 Soares_NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:2359212 3'
2972	15738		1.27	4.0E-60	AA289037.1	EST_HUMAN	wf52c07.x1 Soares_NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:2359212 3'
							EST11498 Uterus Homo sapiens cDNA 5' end similar to similar to retrovirus-related pol
							h81f05.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
7253	19937	33012	0.89	4.0E-60	BF196068.1	EST_HUMAN	Q61085 GTP-RHO BINDING PROTEIN 1;
9024	21714		0.68	4.0E-60	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
11267	23928	37219	1.29	4.0E-60	11433597	NT	Homo sapiens v-raf-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11257	23928	37220	1.29	4.0E-60	11433597	NT	Homo sapiens v-ref-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA
1852	14590	27305	4.44	3.0E-60	BE662811.1	EST_HUMAN	601338448F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3680395 5'
1852	14590	27306	4.44	3.0E-60	BE662811.1	EST_HUMAN	601338448F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3680395 5'
1862	14600		1.92	3.0E-60	6031190	NT	Homo sapiens profilin (PHB) mRNA
4424	17160	29780	1.94	3.0E-60	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
5294	18069	30758	0.57	3.0E-60	BF365143.1	EST_HUMAN	QV4-NN1148-250900-423-401 NN1149 Homo sapiens cDNA
5554	18351	31260	2.12	3.0E-60	AW836186.1	EST_HUMAN	RC3-LT0023-200100-012-401 LT0023 Homo sapiens cDNA
6858	17833	30569	1	3.0E-60	A1792814.1	EST_HUMAN	cl60h11.y5 NCL_CGAP_K043 Homo sapiens cDNA clone IMAGE:1534053 5' similar to SW:UDP_MOUSE. P52524 URIDINE PHOSPHORYLASE;
8301	20895	34132	4.97	3.0E-60	5174644	NT	Homo sapiens prolidase (proline dehydrogenase) (PRODH) mRNA
8301	20895	34133	4.97	3.0E-60	5174644	NT	Homo sapiens prolidase (proline dehydrogenase) (PRODH) mRNA
8482	21174	34319	0.51	3.0E-60	A040285.1	EST_HUMAN	ox56009.x1 Soares_NIH-MP_u_S1 Homo sapiens cDNA clone IMAGE:1660337 3' similar to SW:FORM_MOUSE Q05860 FORMIN;
8841	21333	34477	4.32	3.0E-60	5174644	NT	Homo sapiens prolidase (proline dehydrogenase) (PRODH) mRNA
8959	22212	35398	0.47	3.0E-60	BF102812.1	EST_HUMAN	601646227F1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3930980 5'
11162	23829	37107	1.26	3.0E-60	11427120	NT	Homo sapiens CGI-152 protein (LOC57130), mRNA
11162	23829	37108	1.26	3.0E-60	11427120	NT	Homo sapiens CGI-152 protein (LOC57130), mRNA
12886	25297		2.06	3.0E-60	AA485286.1	EST_HUMAN	ab07h04.t1 Strategene lung (#837210) Homo sapiens cDNA clone IMAGE:840151 5' similar to contains LTR10.t1 LTR10 repetitive element;
29	12857	25474	3.83	2.0E-60	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
1404	14151	26831	7.35	2.0E-60	Z11694.1	NT	H. sapiens 41kDa protein kinase related to rat ERK2
1715	14458	27155	1.29	2.0E-60	M24603.1	NT	Human bcr protein mRNA, 5' end
1724	14467	27166	1.59	2.0E-60	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
2714	15421	28180	1.98	2.0E-60	AW978005.1	EST_HUMAN	EST390114 IMAGE resequences, MAGO Homo sapiens cDNA
3566	16321	28989	0.69	2.0E-60	4757867	NT	Homo sapiens v-ref murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
3895	16945	29285	0.73	2.0E-60	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
6208	18983	31982	0.86	2.0E-60	A1791962.1	EST_HUMAN	nn01f12.y6 NCL_CGAP_C69 Homo sapiens cDNA clone IMAGE:1076465 5' similar to contains THR.t1 THR repetitive element;
6400	18169	32168	1.87	2.0E-60	AF004877.1	NT	Homo sapiens pro-alpha 2(I) collagen (COL1A2) gene, complete cds
6615	18378	32393	0.98	2.0E-60	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
6760	17919	30583	2.43	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA
6750	17919	30584	2.43	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7010	19702	32757	2.73	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to prothymosin, alpha
7010	19702	32758	2.73	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to prothymosin, alpha
7124	19812	32880	0.59	2.0E-60	AK308124.1	EST_HUMAN	U23409.x1 NCL_CGAP_Kd12 Homo sapiens cDNA clone IMAGE:2055185 3' similar to SW:GALR_RAT
7532	20202		0.79	2.0E-60	BF512808.1	EST_HUMAN	Q62805 GALANIN RECEPTOR
7904	20599	33729	0.84	2.0E-60	X85587.1	EST_HUMAN	U145W1-enu-c-02-0-UL.s1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071210 3'
8798	21458	34608	3.01	2.0E-60	L36033.1	NT	HS15BEST human adult testis Homo sapiens cDNA clone CAM_TEST15
							Human pre-B cell stimulating factor homologue (SDF1b) mRNA, complete cds
9878	22528	35724	2.28	2.0E-60	11981659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A
							(SEMA6A), mRNA
9878	22528	35725	2.29	2.0E-60	11981659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A
11449	23216	36448	1.53	2.0E-60	11434729	NT	(SEMA6A), mRNA
11809	24398	37732	1.8	2.0E-60	BF530674.1	EST_HUMAN	Homo sapiens ribosomal protein S6 khsase, 80kD, polypeptide 5 (RPS8KA5), mRNA
11809	24398	37733	1.8	2.0E-60	BF530674.1	EST_HUMAN	602071973F1 NCL_CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4214683 5'
12364	24787		3.02	2.0E-60	11418182	NT	602071973F1 NCL_CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4214683 5'
12494	25228		1.93	2.0E-60	AF068757.1	NT	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae)-like 1 (NHP2L1), mRNA
12498	24851		2.34	2.0E-60	11418088	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12510	24862		1.77	2.0E-60	AB011399.1	NT	Homo sapiens similar to HSPC022 protein (H. sapiens) (LOC83504), mRNA
509	13293	25925	1.13	1.0E-60	BE178588.1	EST_HUMAN	Homo sapiens gene for AF-8, complete cds
3982	16632	28271	1.16	1.0E-60	AU143389.1	EST_HUMAN	PM3-HT0605-270200-001-e06 HT0605 Homo sapiens cDNA
4901	17628	30246	1.2	1.0E-60	AL163285.2	NT	AU143389 Y79AA1 Homo sapiens cDNA clone Y79AA1001854 5'
7848	20543	33671	0.91	1.0E-60	BE084410.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C085
							RC4-BT0311-141189-011-H08 BT0311 Homo sapiens cDNA
							nc04e12.r1 NCL_CGAP_P1 Homo sapiens cDNA clone IMAGE:1007182 similar to contains L1.1 L1
							repetitive element:
8653	21345		3.46	1.0E-60	AA244041.1	EST_HUMAN	
8681	21373	34517	1.41	1.0E-60	AV754081.1	EST_HUMAN	AV754081 TP Homo sapiens cDNA clone TPGAED05 5'
1077	13835	28493	2.21	9.0E-61	AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005563 5'
2678	15385	28128	1.16	8.0E-61	AW008478.1	EST_HUMAN	w05b10.x1 NCL_CGAP_Cc3 Homo sapiens cDNA clone IMAGE:2506555 3'
2678	15385	28127	1.16	8.0E-61	AW008478.1	EST_HUMAN	w05b10.x1 NCL_CGAP_Cc3 Homo sapiens cDNA clone IMAGE:2506555 3'
2951	15717		1.53	8.0E-61	X57147.1	NT	Human endogenous retrovirus pHE-1 (ERV9)
7796	20491	33614	1.05	8.0E-61	AA583968.1	EST_HUMAN	nm59g06.s1 NCL_CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088218 3'
124	12941	25583	1.97	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
124	12941	25584	1.97	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
125	12941	25583	2.38	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
125	12941	25584	2.38	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5034	12941	25583	1.04	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
5034	12941	25584	1.04	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
259	13067	25705	2.95	6.0E-61	BE40930.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
783	13565	26226	1.62	6.0E-61	BE40930.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
1298	14047	26719	15	6.0E-61	AF119860.1	NT	Homo sapiens PRO2014 mRNA, complete cds
1628	14372	27061	0.97	6.0E-61	BE257400.1	EST_HUMAN	601108238F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3350145 5'
1643	14389	27078	2.63	6.0E-61	AA596033.1	EST_HUMAN	m65h09.s1 NCI_OGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088887 3'
2123	14854	27683	1.58	6.0E-61	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
3301	16063	28711	9.37	6.0E-61	AU130688.1	EST_HUMAN	AU1306889 NT2RP3 Homo sapiens cDNA clone NT2RP3001263 5'
5941	18723	31682	3.37	6.0E-61	S79249.1	NT	ig-beta/B28-CD79b (alternatively spliced) [human, B cells, mRNA Partial, 375 nt]
7242	19827	33003	1.82	6.0E-61	U24498.1	NT	Human autosomal dominant polycystic kidney disease protein 1 (PKD1) gene
7518	20189	33282	1.67	6.0E-61	AF035737.1	NT	Homo sapiens general transcription factor 2-1 (GTF2I) mRNA, complete cds
11474	24075	37384	1.35	6.0E-61	AF090386.1	NT	Homo sapiens napsin A mRNA, complete cds
11474	24075	37385	1.35	6.0E-61	AF090386.1	NT	Homo sapiens napsin A mRNA, complete cds
12265	13565	26226	1.62	6.0E-61	BE40930.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
350	13149	25789	1.73	5.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1674	14419	27112	2.22	5.0E-61	4506008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3032	15798	28444	2.58	5.0E-61	AL163279.2	NT	Homo sapiens chromosome 21 segment HS21C079
3193	15956	28608	3.27	6.0E-61	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3963	16712	28608	1.78	6.0E-61	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4941	13149	25789	1.07	5.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
5080	17789	30416	3.38	5.0E-61	4502286	NT	Homo sapiens ATPase, Ca++ transporting, plasma membrane 1 (ATP2B1) mRNA
6725	18517	31438	0.87	4.0E-61	7661637	NT	Homo sapiens DKFZP566B023 protein (DKFZP566B023), mRNA
12068	24582		3.51	4.0E-61	AV731140.1	EST_HUMAN	AV731140 HTF Homo sapiens cDNA clone HTFARB01 5'
8320	21013	34151	0.69	3.0E-61	AF150190.1	EST_HUMAN	AF150190 Human mRNA from cd34+ stem cells Homo sapiens cDNA clone CBDA3B04
8596	21288	34427	0.84	3.0E-61	AA301233.1	EST_HUMAN	EST14323 Testis tumor Homo sapiens cDNA 5' end
8596	21288	34428	0.84	3.0E-61	AA301233.1	EST_HUMAN	EST14323 Testis tumor Homo sapiens cDNA 5' end
486	13271	25906	1.52	2.0E-61	8922828	NT	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA
1190	13942	26807	0.82	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-401 HT0513 Homo sapiens cDNA
1190	13942	26808	0.82	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-401 HT0513 Homo sapiens cDNA
1660	14408	27097	1	2.0E-61	NS3039.1	EST_HUMAN	yw53d11.31 Soares fetal liver spleen 1NPLS Homo sapiens cDNA clone IMAGE:246453 3' similar to gbL25444 60S RIBOSOMAL PROTEIN L35A (HUMAN);

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2847	15357		1.04	2.0E-61	N39397.1	EST_HUMAN	yy03f11.1 Soares melanocyte 2Nbl-IM Homo sapiens cDNA clone IMAGE:270189 5'
6332	19102	32090	0.98	2.0E-61	11428168	NT	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/118kD) (ATP6N1A), mRNA
8913	21604	34748	0.98	2.0E-61	AV694317.1	EST_HUMAN	AV694317 GKC Homo sapiens cDNA clone GKCELG06 5'
9482	22012		0.89	2.0E-61	AB011108.1	NT	Homo sapiens mRNA for KIAA0538 protein, partial cds
9822	22473	35676	1.87	2.0E-61	AW500286.1	EST_HUMAN	UHF-BNO-ekd-f-12-0-U1.1 NIH_MGC 50 Homo sapiens cDNA clone IMAGE:3076774 5'
10150	22798	36014	2.3	2.0E-61	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA
10799	23482		1.81	2.0E-61	11419729	NT	Homo sapiens ribosomal protein L44 (RPL44), mRNA
758	13528	28188	1.11	1.0E-61	5453829	NT	Homo sapiens origin recognition complex, subunit 2 (yeast homolog)-like (ORC2L), mRNA
1851	14589	27304	3.71	1.0E-61	8005983	NT	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
2183	14822	27656	1.42	1.0E-61	AW827281.1	EST_HUMAN	zn11b09.y1 NCI_CGAP_LJ5 Homo sapiens cDNA clone IMAGE:2683368 5' similar to contains element
2839	15607	28257	1.47	1.0E-61	BE386363.1	EST_HUMAN	MSR1 repetitive element;
3358	16128	28786	0.86	1.0E-61	7682319	NT	601273513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614687 5'
3715	16468	29106	1.2	1.0E-61	BE174455.1	EST_HUMAN	Homo sapiens KIAA0808 gene product (KIAA0808), mRNA
4407	17144	29773	0.81	1.0E-61	4758249	NT	QV2-HT0577-140300-077-g08 HT0577 Homo sapiens cDNA
4407	17144	29774	0.81	1.0E-61	4758249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
4804	17535	30157	8.11	1.0E-61	AW288181.1	EST_HUMAN	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
4804	17535	30158	8.11	1.0E-61	AW288181.1	EST_HUMAN	UHF-BWO-ekt-b-08-Q-U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2732871 3'
4905	17632	30247	0.75	1.0E-61	AL163210.2	NT	UHF-BWO-ekt-b-08-Q-U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2732871 3'
5309	18114	30772	1.62	1.0E-61	MT6423.1	NT	Homo sapiens chromosome 21 segment HS21C010
5803	18398	31310	0.79	1.0E-61	7682303	NT	H. sapiens carbonic anhydrase VII (CA VII) gene, exons 4,5,6, and 7, and complete cds
5783	18584	31511	1.29	1.0E-61	11416891	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
6800	19461	32482	7.11	1.0E-61	M30135.1	NT	Homo sapiens survival of motor neuron 1, telomeric (SMN1), mRNA
6891	19684	32732	0.67	1.0E-61	4759171	NT	Human P40 T-cell and mesel cell growth factor (hP40) gene, complete cds
7091	19780	32846	1.42	1.0E-61	8823130	NT	Homo sapiens SC35-interacting protein 1 (SRRP129), mRNA
7091	19780	32848	1.42	1.0E-61	8823130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8033	20728	33861	3	1.0E-61	11034840	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8212	20908						Homo sapiens growth hormone releasing hormone (GHRH), mRNA
9182	21852		3.06	1.0E-61	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
9257	21838		2.7	1.0E-61	AW989728.1	EST_HUMAN	MR0-BN0070-040400-010-101 BN0070 Homo sapiens cDNA
9828	22576	35715	7.73	1.0E-61	11416280	NT	Homo sapiens cadherin 18 (CDH18), mRNA
10531	23228	36462	5.24	1.0E-61	11428892	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
			2.84	1.0E-61	11425578	NT	Homo sapiens actinin, alpha 4 (ACTN4), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10855	23535	36780	1.49	1.0E-61	AB044550.1	NT	Homo sapiens P/OKcl 19 mRNA for ubiquitin-conjugating enzyme E2, complete cds
11008	23678	36835	1.53	1.0E-61	AB007830.1	NT	Homo sapiens mRNA for CSR2, complete cds
12007	25273	30728	3.02	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12007	25273	30727	3.02	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12658	24959	30888	11.56	1.0E-61	11418127	NT	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
10255	22803	36113	1.45	9.0E-62	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-110 BT0310 Homo sapiens cDNA
4814	17249	28885	1.1	8.0E-62	AA830420.1	EST_HUMAN	cc66h11.s1 NCL CGAP_GCB1 Homo sapiens cDNA IMAGE:1354725 3' similar to SW:POL_MLVRK
1085	13843	26501	1.62	7.0E-62	AV714334.1	EST_HUMAN	P31785 POL POLYPROTEIN;
3497	16283	28907	0.74	7.0E-62	P17480	SWISSPROT	AV714334 DCB Homo sapiens cDNA clone DCBAMA08 5'
6826	18616	31547	0.64	7.0E-62	11427865	NT	NUCLEOLAR TRANSCRIPTION FACTOR 1 (UPSTREAM BINDING FACTOR 1) (UBF-1) (AUTOANTIGEN NOR-90)
11323	24014	37317	7.1	7.0E-62	AJ208881.1	EST_HUMAN	Homo sapiens hypothetical protein (FLJ20261), mRNA
2698	15764		1.42	6.0E-62	U09410.1	NT	q556a04.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1839150 3' similar to TR:O15103
3378	16138		4.1	6.0E-62	11418255	NT	O15103 HYPOTHETICAL: 27.3 KD PROTEIN. ; Human zinc finger protein ZNF131 mRNA, partial cds
7525	20196	33289	3.03	6.0E-62	AJ762801.1	EST_HUMAN	Homo sapiens CGI-56 protein (CGI-56), mRNA
7525	20196	33290	3.03	6.0E-62	AJ762801.1	EST_HUMAN	w04402.x1 NCL CGAP_GCL1 Homo sapiens cDNA clone IMAGE:2388251 3'
7884	20579		0.72	6.0E-62	AW501124.1	EST_HUMAN	w04402.x1 NCL CGAP_GCL1 Homo sapiens cDNA clone IMAGE:2388251 3'
8155	20849	33981	1.45	6.0E-62	11431130	NT	UHF-BPOp-elt-09-0-UJ1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072833 5'
8254	21833	35108	3.27	6.0E-62	AW814393.1	EST_HUMAN	Homo sapiens CGI-18 protein (LOC51009), mRNA
407	13192	25840	2.8	5.0E-62	AB50528.1	EST_HUMAN	MRF3-ST0203-130100-025-409 ST0203 Homo sapiens cDNA
2406	15127	27863	4.25	6.0E-62	AJ271735.1	NT	w051e07.x1 NCL CGAP_Juz28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG86_HUMAN
2406	15127	27864	4.25	6.0E-62	AJ271735.1	NT	Q08378 GOLGIN-85 ; contains element MER22 repetitive element ;
2598	15312	28048	1.35	5.0E-62	U39487.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
2598	15312	28049	1.35	5.0E-62	U39487.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
3413	16171	28920	2.92	5.0E-62	4506758	NT	Human xanthine dehydrogenase/codase mRNA, complete cds
4293	17032	29680	2.6	5.0E-62	AA431083.1	EST_HUMAN	Human xanthine dehydrogenase/codase mRNA, complete cds
8447	21139	34278	0.55	5.0E-62	4506758	NT	Homo sapiens ryonodine receptor 3 (RYR3) mRNA
9417	22095	35267	6.45	5.0E-62	AW410887.1	EST_HUMAN	zW78e09.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:782344 3' similar to SW:NRDC_RAT
11231	23884	37180	2.85	5.0E-62	11425574	NT	P47245 NARDILYSIN ;
11231	23884	37181	2.85	5.0E-62	11425574	NT	Homo sapiens ryonodine receptor 3 (RYR3) mRNA

Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
820	13591	26258	1.95	4.0E-62	AW161478.1	EST_HUMAN	eu71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
820	13591	26259	1.95	4.0E-62	AW161478.1	EST_HUMAN	eu71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
821	13591	26258	2.93	4.0E-62	AW161478.1	EST_HUMAN	eu71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
821	13591	26259	2.93	4.0E-62	AW161478.1	EST_HUMAN	eu71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
2459	15177	27916	1.78	4.0E-62	A1827900.1	EST_HUMAN	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to gb:X57138_ma1 HISTONE H2B.2 (HUMAN);
2459	15177	27917	1.78	4.0E-62	A1827900.1	EST_HUMAN	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to gb:X57138_ma1 HISTONE H2B.2 (HUMAN);
3394	16153		6.34	4.0E-62	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
5833	18622	31555	1.84	4.0E-62	4506878	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2) mRNA
6204	18979	31958	1.9	4.0E-62	11420854	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
7071	19782	32828	1.84	4.0E-62	11421041	NT	Homo sapiens phosphoribosyl pyrophosphatase 2 (PRPS2), mRNA
7534	20204	33299	2.48	4.0E-62	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
7534	20204	33300	2.48	4.0E-62	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
8071	20765	33894	1.08	4.0E-62	11429873	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1), mRNA
8745	21437	34584	4.97	4.0E-62	AB033089.1	NT	Homo sapiens mRNA for KIAA1263 protein, partial cds
10934	23614	36884	4.45	4.0E-62	Z78768.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC9pA16D3
10934	23614	36885	4.45	4.0E-62	Z78768.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC9pA16D3
11895	24533	37270	2.81	4.0E-62	11418088	NT	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA
12590	24947	30994	1.34	4.0E-62	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12645	24942	30981	16.72	4.0E-62	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12645	24942	30982	16.72	4.0E-62	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12662	24976	30983	2.72	4.0E-62	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
72	12869	25635	0.89	3.0E-62	4557794	NT	Homo sapiens neurofibromin 2 (bilateral acoustic neuroma) (NF2) mRNA
3041	15807	28452	1.11	3.0E-62	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3041	15807	28453	1.11	3.0E-62	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3696	16439	29081	6.41	3.0E-62	X52858.1	NT	Human cyclophilin-related processed pseudogene

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8498	21130	34267	5.82	3.0E-62	AI632733.1	EST_HUMAN	wa33f04.x1 NCI_CGAP_Kid111 Homo sapiens cDNA clone IMAGE:2288903 3' similar to contains THR12
1208	13980	26627	2.36	2.0E-62	AL163284.2	NT	THR repetitive element;
8673	21365	34511	4.99	2.0E-62	BF328911.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
8673	21365	34512	4.89	2.0E-62	BF328911.1	EST_HUMAN	RC0-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA
10072	22720		3.8	2.0E-62	AF224668.1	NT	RC0-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA
11689	24294		4.81	2.0E-62	BF330676.1	EST_HUMAN	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
1021	13781	26443	1.87	1.0E-62	AF248540.1	NT	(UBE2D3) genes, complete cds
1536	14283	26970	11.01	1.0E-62	L78810.1	NT	QV4-BT0257-081199-017-e03 BT0257 Homo sapiens cDNA
1791	14531	27239	1.04	1.0E-62	AA625207.1	EST_HUMAN	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds
2915	15681	28328	0.99	1.0E-62	AL039044.1	EST_HUMAN	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
4317	17056		0.71	1.0E-62	BE168413.1	EST_HUMAN	af70a11.1 Soares_NhrIMPu_S1 Homo sapiens cDNA clone IMAGE:1047404 5' similar to WP:K01H12.1
4490	17228	28855	1.57	1.0E-62	8923201	NT	CE03453;
5071	17790	30405	0.9	1.0E-62	L23503.1	NT	DKFZp566F104.1 566 (synonym: hnfkd2) Homo sapiens cDNA clone DKFZp566F104 5'
							QV0-HT0493-280200-135-h12 HT0493 Homo sapiens cDNA
							Homo sapiens hypothetical protein FLJ20212 (FLJ20212), mRNA
							Human glucagon-like peptide-1 receptor (GLP-1) mRNA, complete cds
							Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
6198	18972	31948	0.98	1.0E-62	U52111.2	NT	ab05c02.s1 Strabagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:839908 3'
7034	19726	32782	0.91	1.0E-62	AA400060.1	EST_HUMAN	zg89f10.s1 Soares_fetal_heart_NhrH19W Homo sapiens cDNA clone IMAGE:409771 3'
7045	19736	32796	2.94	1.0E-62	AA722878.1	EST_HUMAN	zg89f10.s1 Soares_fetal_heart_NhrH19W Homo sapiens cDNA clone IMAGE:409771 3'
7045	19736	32787	2.94	1.0E-62	AA722878.1	EST_HUMAN	zg89f10.s1 Soares_fetal_heart_NhrH19W Homo sapiens cDNA clone IMAGE:409771 3'
8655	21347	34491	0.5	1.0E-62	AA280050.1	EST_HUMAN	zg89e07.1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:705060 5'
8656	21647	34797	2.13	1.0E-62	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
8656	21647	34798	2.13	1.0E-62	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
8659	21699	34838	2.02	1.0E-62	X15533.1	NT	H.sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
8659	21699	34839	2.02	1.0E-62	X15533.1	NT	H.sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
9457	22007	35177	3.54	1.0E-62	AA465170.1	EST_HUMAN	ea33d08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815055 3'
11339	24028	37333	2.01	1.0E-62	Z78688.1	NT	H.sapiens flow-sorted chromosome 6 HindIII fragment, SC8pA14D8
11866	24450	37762	1.52	1.0E-62	11424055	NT	Homo sapiens exosome component Rrp48 (LOC56975), mRNA
12474	24638		2.25	1.0E-62	11416322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12673	24966	30990	2.99	1.0E-62	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
329	13130	25765	2.59	9.0E-63	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-05 ST0234 Homo sapiens cDNA
2345	15098		1.53	9.0E-63	C18159.1	EST_HUMAN	C18159 Human placenta cDNA (TFujwara) Homo sapiens cDNA clone GEN-558C10 5'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4020	16768	29395	7.42	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4020	16768	29396	7.42	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
5164	17695	37798	3.05	9.0E-63	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
5379	16179	30868	1.63	9.0E-63	Y15056.1	NT	Homo sapiens mRNA for Pk8 kinase
7082	19772	32837	3.86	9.0E-63	11426385	NT	Homo sapiens nucleoporin 88kD (NUP88), mRNA
7724	20387	33501	0.91	9.0E-63	4885544	NT	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 3 (PDK3) mRNA
8224	20918	34055	1.38	9.0E-63	11421160	NT	Homo sapiens Ras association (RalGDS/AF-6) domain family 2 (RASSF2), mRNA
10816	23499	36736	2.03	9.0E-63	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
10816	23499	36737	2.03	9.0E-63	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
2343	15068	27803	1.32	8.0E-63	4557734	NT	Homo sapiens monoamine oxidase A (MAOA), nuclear gene encoding mitochondrial protein, mRNA
2373	16095	27834	2.08	8.0E-63	6031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
3454	16210	28861	3.02	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
3454	16210	28862	3.02	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
4234	16976	28600	3.31	8.0E-63	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
908	13675		2.09	7.0E-63	AB72137.1	EST_HUMAN	wm55g11.x1 NCI CGAP_U2 Homo sapiens cDNA clone IMAGE:2439908 3'
5255	18061		48.05	6.0E-63	AA420803.1	EST_HUMAN	nc63t02.1 NCI CGAP_P1 Homo sapiens cDNA clone IMAGE:745947 similar to gb:Y00361 60S
8773	21465	34612	1.97	5.0E-63	11526464	NT	RIBOSOMAL PROTEIN (HUMAN);
3315	16075	28726	0.84	4.0E-63	AL163278.2	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
3788	16540	29174	1.16	4.0E-63	AB014607.1	NT	Homo sapiens chromosome 21 segment HS21C078
3788	16540	29175	1.16	4.0E-63	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
6353	19123	32116	3.64	4.0E-63	AW750372.1	EST_HUMAN	Homo sapiens mRNA for KIAA0707 protein, partial cds
6353	19123	32116	3.64	4.0E-63	AW750372.1	EST_HUMAN	GM3-BT0595-190100-072-e09 BT0595 Homo sapiens cDNA
11077	23747	37021	2.3	4.0E-63	AW134709.1	EST_HUMAN	GM3-BT0595-190100-072-e09 BT0595 Homo sapiens cDNA
11077	23747	37022	2.3	4.0E-63	AW134709.1	EST_HUMAN	UIH-B11-abq-e-02-0-UI.s1 NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
11846	24430	37771	4.32	4.0E-63	AA362834.1	EST_HUMAN	UIH-B11-abq-e-02-0-UI.s1 NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
1928	14664	27377	2.82	3.0E-63	AB018260.1	NT	EST72007 Ovary II Homo sapiens cDNA 5' end similar to zinc finger protein family
2782	15487	28225	2.26	3.0E-63	J00310.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
2824	13967	26636	11.81	3.0E-63	6005963	NT	Human Met-RNA-I gene 1
6382	19151	32150	32.78	3.0E-63	11545810	NT	Homo sapiens zinc finger protein 144 (ZNF144), mRNA
9605	22258	35444	1.15	3.0E-63	BE876158.1	EST_HUMAN	Homo sapiens hepatocellular carcinoma antigen gene 520 (LOC353928), mRNA
9605	22258	35445	1.15	3.0E-63	BE876158.1	EST_HUMAN	601485668F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3888253 5'
186	12698	25639	1.09	2.0E-63	U07804.1	NT	601485668F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3888253 5'
							Human DNA topoisomerase I mRNA, partial cds

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
193	13006	25647	1.68	2.0E-63	48852226	NT	Homo sapiens eyes absent (Drosophila) homolog 2 (EYA2), mRNA
485	13270		2.34	2.0E-63	4557824	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
807	13578	26244	5.57	2.0E-63	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
1659	14306	26804	1.43	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1659	14306	26895	1.43	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1760	14502	27203	1.1	2.0E-63	BE410739.1	EST_HUMAN	601301627F1 NIH MGC_21 Homo sapiens cDNA clone IMAGE:3636103 5'
3154	15917	28563	3.44	2.0E-63	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3278	16040	28630	2.02	2.0E-63	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
3885	16635	29274	3.74	2.0E-63	U39891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
4813	17544	30169	1	2.0E-63	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
5039	17818	30435	0.96	2.0E-63	6912617	NT	Homo sapiens glutamyl-peptide cyclotransferase (glutamyl cyclase) (QPCT), mRNA
5181	25062	30505	1.25	2.0E-63	11419429	NT	Homo sapiens similar to ecdysiolide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC33214), mRNA
5794	18585	31512	2.96	2.0E-63	BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
5794	18585	31513	2.96	2.0E-63	BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
6093	18871	31837	0.84	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
6093	18871	31838	0.84	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
6602	19365	32378	1.67	2.0E-63	U66059.1	NT	Human gameline T-cell receptor beta chain Dopamine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TCRBV27S1P, TCRBV22S1A2NT, TCRBV6S1A1T, TCRBV7S1A1N2T, TCRBV6S2A2PT, TCRBV7S2A1N4T, TCRBV6S7P, TCRBV7S3A2T, TCRBV13S2A1T, TCRBV6S2A2PT, TCRBV7S2A1N4T, TCRBV13S9/13S>
6649	19411	32425	0.88	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6649	19411	32426	0.88	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6375	19456	32477	1.45	2.0E-63	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
6375	19456	32478	1.45	2.0E-63	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
7678	20342	33454	0.87	2.0E-63	AB046844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
7713	20377	33490	0.56	2.0E-63	11421514	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC33232), mRNA
8431	21124	34262	3.96	2.0E-63	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
8952	21643	34791	1.35	2.0E-63	11420849	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA
8952	21643	34792	1.35	2.0E-63	11420849	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9839	22490	35681	1.12	2.0E-63	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10647	23338	36577	6.43	2.0E-63	N78945.1	EST_HUMAN	z18b05.s1 Soares_fetal_lung_NH-L19W Homo sapiens cDNA clone IMAGE:302385 3' similar to gb:X17206 40S RIBOSOMAL PROTEIN S4 (HUMAN);
10672	23363	36604	2.96	2.0E-63	AF098810.1	NT	Homo sapiens neuroxin III-alpha gene, partial cds
10672	23363	36605	2.96	2.0E-63	AF098810.1	NT	Homo sapiens neuroxin III-alpha gene, partial cds
12098	25177	30807	5.97	2.0E-63	11418185	NT	Homo sapiens neuroxin III-alpha gene, partial cds
1502	14248	26934	1.28	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zid11
1502	14248	26935	1.28	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zid11
4308	17047	29672	2.92	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zid11
4308	17047	29673	2.92	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zid11
5268	18074	30703	0.8	1.0E-63	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
5683	18476	31394	1.4	1.0E-63	AW582266.1	EST_HUMAN	QV6-S10215-060100-083-b09 S10215 Homo sapiens cDNA
6298	19071	32055	0.66	1.0E-63	AW451950.1	EST_HUMAN	U1H-B13-alt-h-02-Q-U1.s1 NCI CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
6298	19071	32056	0.66	1.0E-63	AW451950.1	EST_HUMAN	U1H-B13-alt-h-02-Q-U1.s1 NCI CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
8371	21084		2.68	1.0E-63	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
12737	25288		4.04	1.0E-63	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
7766	20482	33586	4.36	9.0E-64	AI478186.1	EST_HUMAN	fm50407.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2161525 3'
1024	13784		6.16	8.0E-64	BE280786.1	EST_HUMAN	601155232F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138038 5'
6049	18829	31792	3.88	8.0E-64	BE885755.1	EST_HUMAN	601508068F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910338 5'
11916	24479		7.34	8.0E-64	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
11970	24516		1.6	8.0E-64	T60651.1	EST_HUMAN	y598102.11 Stratiogene lung (#837210) Homo sapiens cDNA clone IMAGE:79179 5'
3520	16276		1.13	7.0E-64	BE394321.1	EST_HUMAN	601311455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:36633204 5'
4683	17417	30052	2.73	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
4683	17417	30053	2.73	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
9633	22581	35779	3.43	7.0E-64	Y07848.1	NT	Homo sapiens EWS, par22, mp22 and bam22 genes
1716	14459	27166	1.63	6.0E-64	A1651932.1	EST_HUMAN	wb51607.x1 NCI CGAP_GC6 Homo sapiens cDNA clone IMAGE:2309220 3' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
1716	14459	27157	1.63	6.0E-64	A1651932.1	EST_HUMAN	wb51607.x1 NCI CGAP_GC6 Homo sapiens cDNA clone IMAGE:2309220 3' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
3120	15885	28524	4.39	6.0E-64	AW026445.1	EST_HUMAN	wy13e03.x1 NCI CGAP_Bn23 Homo sapiens cDNA clone IMAGE:2529436 3'
3120	15885	28525	4.39	6.0E-64	AW026445.1	EST_HUMAN	wy13e03.x1 NCI CGAP_Bn23 Homo sapiens cDNA clone IMAGE:2529436 3'
5534	18332	31237	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31238	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5555	18352	31261	4.08	6.0E-64	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5584	18361	31269	1.26	6.0E-64	6912481	NT	Homo sapiens atrophin-1 interacting protein 1; actinin receptor interacting protein 1 (KIAA0705), mRNA
5739	18531	31453	0.62	6.0E-64	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
5739	18531	31454	0.62	6.0E-64	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
7136	19823	32889	2.34	6.0E-64	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
7136	19823	32890	2.34	6.0E-64	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
9228	21905	35077	6.76	6.0E-64	11420555	NT	Homo sapiens acyl-CoA synthetase (LOC55802), mRNA
9408	22068	35240	2.09	6.0E-64	AF274753.1	NT	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
9618	22271	35458	2.78	6.0E-64	S79475.1	NT	trkC [human, brain, mRNA, 2716 nt]
10689	23360	36800	6.01	6.0E-64	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
10689	23360	36801	6.01	6.0E-64	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
10941	15885	28524	1.84	6.0E-64	AW026445.1	EST_HUMAN	wf13e03.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
10941	15885	28525	1.84	6.0E-64	AW026445.1	EST_HUMAN	wf13e03.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
12115	24608	31089	4.97	6.0E-64	11528198	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
801	13573	28235	2.85	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
801	13573	28238	2.85	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1315	14084	28738	1.84	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1401	14148	28827	1.3	5.0E-64	L40883.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMPRP) gene, complete cds
1401	14148	28828	1.3	5.0E-64	L40883.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMPRP) gene, complete cds
1706	14449	27149	1.37	5.0E-64	U88358.1	NT	Human K3mb1 protein homolog mRNA, complete cds
2829	14210	28897	4.85	5.0E-64	7682205	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
2829	14210	28898	4.85	5.0E-64	7682206	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
3940	16690	28828	6.71	5.0E-64	AF017493.1	NT	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds
4085	16828	28455	1.05	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
7716	20380	33483	0.58	4.0E-64	BE794607.1	EST_HUMAN	601580382F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944397 5'
10715	23404	36844	2.23	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
10715	23404	36845	2.23	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
2195	14924	27658	5.41	3.0E-64	C18895.1	EST_HUMAN	C18895 Human placenta cDNA (TFIiwa) Homo sapiens cDNA clone GEN-568E02 5'
3249	16011	28862	0.89	3.0E-64	BE794381.1	EST_HUMAN	601589565F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'
3436	16192	28841	2.22	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
3436	16192	28842	2.22	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
5680	18771	31794	1.21	3.0E-64	Z28273.1	NT	H. sapiens isoform 1 gene for L-type calcium channel, exon 28
6401	19170	32169	3.34	3.0E-64	BF370000.1	EST_HUMAN	RC8-FN0019-280800-011-G11 FN0019 Homo sapiens cDNA
8365	21058	34188	1.93	3.0E-64	AF248953.1	NT	Homo sapiens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8365	21058	34189	1.93	3.0E-64	AF248953.1	NT	Homo sapiens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds
8393	21086	34220	3.69	3.0E-64	BE206621.1	EST_HUMAN	bb72h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gbL08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
8393	21086	34221	3.69	3.0E-64	BE206621.1	EST_HUMAN	bb72h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gbL08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
8327	21894	35185	1.54	3.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C0046
8327	21894	35186	1.54	3.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C0046
9414	22092	35263	0.6	3.0E-64	AW977394.1	EST_HUMAN	EST389493 IMAGE resequences, MAGO Homo sapiens cDNA
9414	22092	35264	0.6	3.0E-64	AW977394.1	EST_HUMAN	EST389493 IMAGE resequences, MAGO Homo sapiens cDNA
11891	24286	37808	1.8	3.0E-64	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
1066	13824	26484	1.84	2.0E-64	AA609940.1	EST_HUMAN	af08d08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1031151 3'
1377	14125	26799	1.54	2.0E-64	4757701	NT	Homo sapiens aIF4E-like cap-binding protein (4EHP) mRNA w087b01.x1 NC1_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462281 3' similar to cortalins element L1 repetitive element;
2628	15244		1.82	2.0E-64	AB27030.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C0046
2533	15248	27887	2.05	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C0046
2533	15248	27888	2.05	2.0E-64	AL163246.2	NT	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA
3137	15901	28546	1.42	2.0E-64	4504068	NT	EST370215 IMAGE resequences, MAGO Homo sapiens cDNA
3767	16619	29157	0.78	2.0E-64	AW968145.1	EST_HUMAN	EST370215 IMAGE resequences, MAGO Homo sapiens cDNA
3767	16619	29158	0.78	2.0E-64	AW968145.1	EST_HUMAN	EST370215 IMAGE resequences, MAGO Homo sapiens cDNA
5916	18701	31655	2.78	2.0E-64	AU124387.1	EST_HUMAN	AU124387 NT2RM2 Homo sapiens cDNA clone NT2RM2002113 5'
6148	18825	31895	1.47	2.0E-64	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
6394	19163	32184	5.21	2.0E-64	BF689537.1	EST_HUMAN	602123474F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4280395 5'
6497	19263	32284	1.16	2.0E-64	AU78397.1	EST_HUMAN	cc28d03.x1 Soares_testis_Nb2HFB_9w Homo sapiens cDNA clone IMAGE:1676717 3'
6601	19384	32378	4.54	2.0E-64	M77185.1	NT	H. sapiens dopamine receptor D5 pseudogene 1, partial cds
7707	20371	33484	0.7	2.0E-64	11431054	NT	Homo sapiens ataxin 2-binding protein 1 (A2BP1), mRNA
7732	20395	33510	0.65	2.0E-64	AW606785.1	EST_HUMAN	QV1-HT0413-010200-059-h12 HT0413 Homo sapiens cDNA
8587	21259	34395	0.73	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCPT), mRNA
8587	21259	34396	0.73	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCPT), mRNA
9038	21728	34882	0.56	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCPT), mRNA
9130	21818	34984	0.97	2.0E-64	11423508	NT	Homo sapiens hypothetical protein SBB167 (LOC57115), mRNA
9879	22529	35726	0.59	2.0E-64	AU132570.1	EST_HUMAN	AU132570 NT2RP4 Homo sapiens cDNA clone NT2RP4000109 5'
9879	22529	35727	0.59	2.0E-64	T06397.1	EST_HUMAN	EST04286 Fetal brain, Stratagene (cat#36206) Homo sapiens cDNA clone HFBD588
10662	23553	36592	3.72	2.0E-64	BF628114.1	EST_HUMAN	EST04286 Fetal brain, Stratagene (cat#36206) Homo sapiens cDNA clone HFBD588 602042882F1 NC1_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4180556 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10881	23656	36909	5.97	2.0E-64	A1922811.1	EST_HUMAN	wn81b06.x1 NCL CGAP_UH1 Homo sapiens cDNA clone IMAGE:2452211 3'
10881	23656	36910	5.97	2.0E-64	A1922811.1	EST_HUMAN	wn81b06.x1 NCL CGAP_UH1 Homo sapiens cDNA clone IMAGE:2452211 3'
11198	23963	37149	1.76	2.0E-64	AW864773.1	EST_HUMAN	PM2-SN0018-220300-002-e12 SN0018 Homo sapiens cDNA
12039	24662	31114	1.65	2.0E-64	8567387	NT	Homo sapiens peroid (Drosophila) homolog 3 (PER3), mRNA
12468	24834		4.85	2.0E-64	H55162.1	EST_HUMAN	CHR220101 Chromosome 22 exon Homo sapiens cDNA clone C22_132 5'
251	13060	25668	2.84	1.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1772	14514	27214	10.45	1.0E-64	A1929419.1	EST_HUMAN	au60c01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519136 3' similar to gb:L21698 cds1 PROTHYMOSIN ALPHA (HUMAN); contains element MSR1 repetitive element ;
3010	15776	28426	0.79	1.0E-64	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
3501	16257	28912	5.74	1.0E-64	AF196779.1	NT	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel a2
3572	16327	28974	1.27	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3572	16327	28976	1.27	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3881	16631	28270	0.79	1.0E-64	8922829	NT	Homo sapiens hypothetical protein FLJ11028 (FLJ11028), mRNA
9884	22812	35816	1.07	1.0E-64	AA042975.1	EST_HUMAN	z153108.s1 Soares_pregnant_uterus_Nb2IPU Homo sapiens cDNA clone IMAGE:486687 3'
12012	24545		1.81	1.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2274	15000	27738	1.53	9.0E-65	X69211.1	NT	H. sapiens DNA for endogenous retroviral like element
2274	15000	27739	1.53	9.0E-65	X69211.1	NT	H. sapiens DNA for endogenous retroviral like element
11523	24123		10.43	9.0E-65	BF330676.1	EST_HUMAN	QV4-BT0257-081199-017-e03 BT0257 Homo sapiens cDNA
11493	24094	37405	10.87	8.0E-65	A1929244.1	EST_HUMAN	au58h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519005 3' similar to SW:RL21_HUMAN P46778 60S RIBOSOMAL PROTEIN L21. ;
10055	22703	35921	2.01	7.0E-65	BE081653.1	EST_HUMAN	QV2-BT0635-240400-162-c02 BT0635 Homo sapiens cDNA
11807	24397	37731	1.27	7.0E-65	Z21378.1	EST_HUMAN	HSAAAEAWO TEST1, Human adult Testis tissue Homo sapiens cDNA clone cam test346 (b)
1034	13704	28454	3.59	6.0E-65	AV721896.1	EST_HUMAN	AV721898 HTB Homo sapiens cDNA clone HTBBZC06 5'
1915	14652		4.73	8.0E-65	AA550929.1	EST_HUMAN	nt66d10.s1 NCL CGAP_PT11 Homo sapiens cDNA clone IMAGE:986379 similar to gb:K03002 60S RIBOSOMAL PROTEIN L32 (HUMAN);
6475	19242	32242	0.82	6.0E-65	AA503892.1	EST_HUMAN	nt537607.s1 NCL CGAP_PT6 Homo sapiens cDNA clone IMAGE:954517
8945	21337	34481	2.3	6.0E-65	AW083252.1	EST_HUMAN	xc07b09.x1 NCL CGAP_Coc21 Homo sapiens cDNA clone IMAGE:2583545 3' similar to TR:Q63306 Q63306 LONG INTERSPERSED REPETITIVE DNA CONTAINING 7 ORFS. ; contains L1 b2 L1 repetitive element ;
8909	21600	34742	3.46	6.0E-65	AA427878.1	EST_HUMAN	zw53b08.s1 Soares_totat_fetus_Nb2IF8_9w Homo sapiens cDNA clone IMAGE:779747 3'
8909	21600	34743	3.46	6.0E-65	AA427878.1	EST_HUMAN	zw53b08.s1 Soares_totat_fetus_Nb2IF8_9w Homo sapiens cDNA clone IMAGE:779747 3'
8973	21693	34814	0.81	6.0E-65	A1085314.1	EST_HUMAN	qf18h05.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750426 3'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8973	21663	34815	0.81	6.0E-65	AI085314.1	EST_HUMAN	qf18m05.x1 NCI_CGAP_Bm26 Homo sapiens cDNA clone IMAGE:1750425 3'
10783	23466	36707	3.82	6.0E-65	BE567816.1	EST_HUMAN	601340485F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3682677 5'
10968	23644	36897	1.52	6.0E-65	BF340825.1	EST_HUMAN	602037721F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4185677 5'
11480	24061	37382	1.86	6.0E-65	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1331	14080	26754	1.6	5.0E-65	7661951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
1331	14080	26755	1.6	5.0E-65	7661951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
2151	14881	27615	1.6	5.0E-65	AB033768.1	NT	Homo sapiens hPAD-colony10 mRNA for peptidylarginine diaminase type I, complete cds
3250	16012	28663	1.6	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3250	16012	28664	1.6	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
10364	23011	36226	1.01	5.0E-65	AF009668.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
188	13001	26842	2.02	4.0E-65	AL120419.1	EST_HUMAN	DKFZp761G108.J1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G108 5'
728	13502	26156	1.37	4.0E-65	AI266468.1	EST_HUMAN	qm46e01.x1 Soares_placenta_8to9weeks_2Nblp8to9W Homo sapiens cDNA clone IMAGE:1881800 3'
728	13502	26157	1.37	4.0E-65	AI266468.1	EST_HUMAN	qm46e01.x1 Soares_placenta_8to9weeks_2Nblp8to9W Homo sapiens cDNA clone IMAGE:1881800 3'
1056	13814	26475	1.38	4.0E-65	4826735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1469	14216	26903	11.06	4.0E-65	4506636	NT	Homo sapiens ribosomal protein L34 (RPL34) mRNA
2336	15080	27796	0.91	4.0E-65	BE221469.1	EST_HUMAN	hu25e04.x1 NCI_CGAP_Mal15 Homo sapiens cDNA clone IMAGE:3171102 3'
2336	15080	27797	0.91	4.0E-65	BE221469.1	EST_HUMAN	hu25e04.x1 NCI_CGAP_Mal15 Homo sapiens cDNA clone IMAGE:3171102 3'
3030	16680	29321	1.08	4.0E-65	AW983185.1	EST_HUMAN	RC2-BN0033-160200-013-a03 BN0033 Homo sapiens cDNA
5124	17842	30459	1.03	4.0E-65	9055269	NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI), mRNA
5124	17842	30460	1.03	4.0E-65	9055269	NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI), mRNA
6063	18842	31804	4.6	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
6063	18842	31805	4.6	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
6963	19676	32723	0.55	4.0E-65	AY006372.1	NT	Homo sapiens oxysterol binding protein-related protein 3 (ORP3) mRNA, complete cds
7017	19709	32765	0.97	4.0E-65	M19879.1	NT	Homo sapiens 27 gene, exon 10 and 11, and L1 and Alu repeats
7119	19807	32873	2.52	4.0E-65	U40372.1	NT	Human diabinin 27 gene, exon 10 and 11, and L1 and Alu repeats
7448	20124	33215	0.97	4.0E-65	U40372.1	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7448	20124	33216	0.97	4.0E-65	U40372.1	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7741	20437	33558	1.86	4.0E-65	5453765	NT	Human 3',5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7741	20437	33559	1.86	4.0E-65	5453765	NT	Human 3',5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
9044	21734	34888	0.63	4.0E-65	11429127	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
10480	23126		2.04	4.0E-65	AJ277546.2	NT	Homo sapiens Jarvis kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
							Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10874	23554	36801	1.97	4.0E-65	AV738764.1	EST_HUMAN	AV738764 CB Homo sapiens cDNA clone CBGCCBE05 5'
11041	23712	36882	3.68	4.0E-65	AF119846.1	NT	Homo sapiens PRO1474 mRNA, complete cds
12319	13814	26475	1.46	4.0E-65	4826735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1210	15522		3.8	3.0E-65	X76932.1	NT	H. sapiens HZF9 mRNA for zinc finger protein
1551	14297	26984	0.91	3.0E-65	4504628	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA, and translated products
1816	14556	27271	0.83	3.0E-65	A1000692.1	EST_HUMAN	ov23f03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
3271	16032	28683	0.75	3.0E-65	4504660	NT	MSR1 repetitive element;
3709	16462	29101	0.89	3.0E-65	A1000692.1	EST_HUMAN	Homo sapiens laminin, beta 1 (LAMB1), mRNA
4602	17337	28968	1.91	3.0E-65	6912385	NT	ov23f03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
8969	22617	35820	1.44	3.0E-65	BE787368.1	EST_HUMAN	MSR1 repetitive element;
11363	23174	36402	11.12	3.0E-65	AA430006.1	EST_HUMAN	Homo sapiens reb6 GTPase activating protein (GAP and centrosome-associated) (GAPCENA), mRNA
3399	16157	28809	5.75	2.0E-65	BF680294.1	EST_HUMAN	601478686F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882405 5'
8442	16210		2.48	2.0E-65	BE680373.1	EST_HUMAN	zuv65a06.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781042 5'
7032	19724	32780	32.07	2.0E-65	BF676822.1	EST_HUMAN	602155062F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295666 5'
8744	21436	34582	1.06	2.0E-65	AK024463.1	NT	601190883F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3534741 5'
8744	21436	34583	1.06	2.0E-65	AK024463.1	NT	602134359F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4289285 5'
10552	23248	36485	2	2.0E-65	11419247	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
11969	24515		3.65	2.0E-65	AA307904.1	EST_HUMAN	Homo sapiens mRNA for FLJ00056 protein, partial cds
12431	25159		2.2	2.0E-65	BF246088.1	EST_HUMAN	Homo sapiens SWIISNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 (SMARCD3), mRNA
89	12915		1.59	1.0E-65	BF125544.1	EST_HUMAN	EST178755 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end similar to similar to endogenous retrovirus
526	13310	25043	1.44	1.0E-65	7657495	NT	601854033F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4073769 5'
2033	14768	27498	1.29	1.0E-65	AB040946.1	NT	601763488F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4026501 5'
3365	16124	28781	0.81	1.0E-65	BE466881.1	EST_HUMAN	Homo sapiens putative Rab5 GDP/GTP exchange factor homologue (RABEX5), mRNA
3980	16728	29382	2.47	1.0E-65	4504082	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
3980	16728	29383	2.47	1.0E-65	4504082	NT	h224608.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:3208688 3'
4183	16923	29551	2.01	1.0E-65	AW028340.1	EST_HUMAN	Homo sapiens glycican 4 (GPC4) mRNA
4183	16923	29552	2.01	1.0E-65	AW028340.1	EST_HUMAN	Homo sapiens glycican 4 (GPC4) mRNA
8152	20846	33977	2.04	1.0E-65	AW820481.1	EST_HUMAN	wo09c09.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
8152	20846	33978	2.04	1.0E-65	AW820481.1	EST_HUMAN	wo09c09.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'

Table 4
Single Exon Probes Expressed in Brain

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4332	17071	29700	1.15	6.0E-66	AI924953.1	EST_HUMAN	wf57h07.x1 NCI_CGAP_Lut19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP.F15G9.4A
8333	21026		0.48	6.0E-66	BE178563.1	EST_HUMAN	CE18595;
11108	23778	37052	3.14	6.0E-66	X69181.1	NT	PM2-HT0604-030300-001-b08 HT0604 Homo sapiens cDNA
1348	14094	26769	1.45	5.0E-66	BE064410.1	EST_HUMAN	H.sapiens mRNA for ribosomal protein L31
5048	17765	30382	0.74	6.0E-66	BE898644.1	EST_HUMAN	RC4-BT0311-141189-011-h08 BT0311 Homo sapiens cDNA
5048	17765	30382	0.74	6.0E-66	BE898644.1	EST_HUMAN	601681602F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3851781 5'
8194	21864	35028	16.11	6.0E-66	11420557	NT	601681502F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3851781 5'
773	13545	26209	0.88	4.0E-66	AW897798.1	EST_HUMAN	Homo sapiens thyroid hormone receptor binding protein (AIB3), mRNA
1729	14471	27170	1.14	4.0E-66	X89211.1	NT	Mus musculus fragile X mental retardation syndrome 1 homolog (Fmr1), mRNA
2278	15004	27744	1.83	4.0E-66	AJ223364.1	NT	RC1-NN0063-100500-022-002 NN0063 Homo sapiens cDNA
2477	15195		3.02	4.0E-66	9635487	NT	H.sapiens DNA for endogenous retroviral like element
4733	17465		10.89	4.0E-66	11428643	NT	Homo sapiens germ-line DNA upstream of Jkappa locus
5463	18282	31153	3.73	4.0E-66	AW939119.1	EST_HUMAN	Homo sapiens endogenous retrovirus, complete genome
5657	18452	31368	1.15	4.0E-66	AW965473.1	EST_HUMAN	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHFD2), mRNA
6757	17928	30581	4.83	4.0E-66	U78168.1	NT	QV1-DT0069-110200-067-g10 DT0069 Homo sapiens cDNA
7031	19723	32779	7.93	4.0E-66		NT	EST377548 IMAGE resequences, MAGI Homo sapiens cDNA
7529	18282	31153	0.72	4.0E-66	11428643	NT	Homo sapiens cAMP-regulated guanine nucleotide exchange factor 1 (cAMP-GEF1) mRNA, complete cds
7978	20671	33794	5.63	4.0E-66	11421638	NT	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHFD2), mRNA
8034	20729	33862	0.73	4.0E-66	X67147.1	NT	Homo sapiens hypothetical protein FLJ20716 (FLJ20716), mRNA
10558	23252	38488	1.97	4.0E-66	BF507493.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20716 (FLJ20716), mRNA
11351	24041	37344	1.28	4.0E-66	AB023215.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
1407	14154	26835	10.96	3.0E-66	4502098	NT	UHH-BW1-err-a-10-0-JL.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070747 3'
1407	14154	26836	10.96	3.0E-66	4502098	NT	Homo sapiens mRNA for KIAA0898 protein, partial cds
1975	14711	27429	1.18	3.0E-66	N55323.1	EST_HUMAN	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
1976	14711	27430	1.16	3.0E-66	N55323.1	EST_HUMAN	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1975	14711	27431	1.10	3.0E-06	N55323.1	EST_HUMAN	Y27G12.1 Soares_multiple_sclerosis_2N14MSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2 [2] PIR:B56812 ;
2711	15418	28156	3.54	3.0E-06	11141880	NT	Homo sapiens TGF(beta)-induced transcription factor 2 (TGIF2), mRNA
3115	15880	28520	6.3	3.0E-06	7882223	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA
5380	18180	30870	1.14	3.0E-06	AB020699.1	NT	Homo sapiens mRNA for KIAA0892 protein, partial cds
5480	18289	31186	0.73	3.0E-06	IM13976.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
5888	18479	31397	1.92	3.0E-06	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
5888	18479	31398	1.92	3.0E-06	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
9425	22103	35275	0.62	3.0E-06	AK024463.1	NT	Homo sapiens mRNA for FLJ00045 protein, partial cds
9819	22272	35458	0.52	3.0E-06	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9873	22621	35828	0.8	3.0E-06	7019480	NT	Homo sapiens protocadherin beta 1 (PCDH-beta1), mRNA
10420	23066	36287	0.97	3.0E-06	AF155658.1	NT	Homo sapiens myoblast fusion factor protein E (MCFPE) mRNA, complete cds
11494	24095	37408	6.16	3.0E-06	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA
11806	24306	37730	1.57	3.0E-06	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
50	12878	25505	2.15	2.0E-06	7657334	NT	Homo sapiens Missipen/NIK-related kinase (MINIK), mRNA
50	12878	25506	2.15	2.0E-06	7657334	NT	Homo sapiens Missipen/NIK-related kinase (MINIK), mRNA
413	12824	25437	1.76	2.0E-06	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORCSL) mRNA, and translated products
413	12824	25438	1.76	2.0E-06	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORCSL) mRNA, and translated products
1819	14558	27272	2.05	2.0E-06	AL183301.2	NT	Homo sapiens chromosome 21 segment HS21C101
3510	16266	28920	0.77	2.0E-06	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3747	16500	29134	0.88	2.0E-06	AL117233.1	NT	Novel human gene mapping to chromosome 1
4044	16789	29417	0.8	2.0E-06	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
4607	17342	29973	9.48	2.0E-06	AJ133267.2	NT	Homo sapiens HLA-B gene for human leukocyte antigen B
4807	17342	29974	9.48	2.0E-06	AJ133267.2	NT	Homo sapiens HLA-B gene for human leukocyte antigen B
5726	18518	31439	1.3	2.0E-06	AW968854.1	EST_HUMAN	EST380930 MAGE resequences, MAGJ Homo sapiens cDNA
5726	18518	31440	1.3	2.0E-06	AW968854.1	EST_HUMAN	EST380930 MAGE resequences, MAGJ Homo sapiens cDNA
8746	21438	34585	2.26	2.0E-06	N45480.1	EST_HUMAN	y56c02.1 Soares_multiple_sclerosis_2N14MSP Homo sapiens cDNA clone IMAGE:277826 5'
12329	25370		2.37	2.0E-06	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
1678	14422		1.15	1.0E-06	BE887173.1	EST_HUMAN	601508376F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3609681 5'
2895	15662	28309	1.36	1.0E-06	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADO07 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2895	15682	28310	1.36	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4352	15682	28309	3.81	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4352	15682	28310	3.81	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
5297	18102	30761	5.96	1.0E-66	BF673088.1	EST_HUMAN	602152898F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4284161 5'
5692	18486	31406	0.77	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
5692	18486	31407	0.77	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
6839	19501	32526	1.57	1.0E-66	BF328623.1	EST_HUMAN	RC5-BN0193-010900-034-G08 BN0193 Homo sapiens cDNA
8357	21050	34189	1.19	1.0E-66	AA688858.1	EST_HUMAN	aa80e04.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:827262 3'
9328	21693	35164	0.94	1.0E-66	AA018828.1	EST_HUMAN	ze57e12.t1 Soares retina N2b-4HR Homo sapiens cDNA clone IMAGE:368118 5'
10270	22918	36129	0.92	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
10270	22918	36130	0.92	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
10862	23542	36769	2.48	1.0E-66	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
11509	24109	37422	1.8	1.0E-66	AW968744.1	EST_HUMAN	EST380820 MAGE resequences, MAGJ Homo sapiens cDNA
12113	24606		2.51	9.0E-67	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
371	13196	25941	1.52	7.0E-67	AW162232.1	EST_HUMAN	au75402.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104
1361	14109	26784	2.89	7.0E-67	AA383418.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
1547	14293	26978	1.38	7.0E-67	W85947.1	EST_HUMAN	EST196812 Testis I Homo sapiens cDNA 5' end similar to similar to C. elegans hypothetical protein, cosmid
1547	14293	26980	1.38	7.0E-67	W85947.1	EST_HUMAN	ZK353
2028	14761	27489	2.06	7.0E-67		NT	zh58b05.t1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
2028	14761	27490	2.06	7.0E-67		NT	zh58b05.t1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
					7657243	NT	Homo sapiens inositol 1,3,4-triphosphate 5/6 kinase (ITPK1), mRNA
					7657243	NT	Homo sapiens inositol 1,3,4-triphosphate 5/6 kinase (ITPK1), mRNA
2813	13196	25941	3.4	7.0E-67	AW162232.1	EST_HUMAN	au75402.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104
5989	18770	31733	0.78	7.0E-67	10190695	NT	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
6177	18954	31827	2.02	7.0E-67	11425572	NT	Homo sapiens zinc finger protein 304 (ZNF304), mRNA
6177	18954	31828	2.02	7.0E-67	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
						NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
6623	19385	32399	1.29	7.0E-67	4885084	NT	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein
7531	20201	33298	1	7.0E-67	11419212	NT	1A (110/116KD) (ATP6N1A), mRNA
7631	20201	33297	1	7.0E-67	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
8222	20916	34052	0.59	7.0E-67	4557732	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
8830	21522	34669	0.58	7.0E-67	10835044	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
						NT	Homo sapiens retinaldehyde dehydrogenase 2 (RALDH2), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11266	23918		1.58	7.0E-67	11434578	NT	Homo sapiens fucosyltransferase 8 (alpha (1,6) fucosyltransferase) (FUT8), mRNA
11677	24272	37594	6.37	7.0E-67	U82488.1	NT	Human cytochrome oxidase subunit VIa (COX6A1P) pseudogene, complete cds
11898	24465	37803	2.24	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
11898	24465	37804	2.24	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12355	24759	31061	1.58	7.0E-67	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
546	13329	25950	2.12	6.0E-67	X68968.1	NT	H. sapiens mRNA for acetyl-CoA carboxylase
778	13550	26211	0.92	6.0E-67	Z1727.1	NT	Homo sapiens mRNA for transmembrane receptor protein
1250	13959	26936	1.29	6.0E-67	Y14320.1	NT	Homo sapiens PMP89 gene, exons 3,4,5,6 & 7
3166	16829	28578	1.17	6.0E-67	4509434	NT	Homo sapiens retinoblastoma 1 (including osteosarcoma) (RB1) mRNA
3431	16187	28835	1.64	6.0E-67	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
3431	16187	28836	1.64	6.0E-67	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
4108	16849	29474	0.7	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4108	16849	29475	0.7	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4657	17391	30025	5.01	6.0E-67	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4657	17391	30026	5.01	6.0E-67	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
5101	17635		1.23	6.0E-67	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3215	15978	28629	1.91	5.0E-67	AF009690.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
10905	23585		1.68	5.0E-67	BE010038.1	EST_HUMAN	PM3-BN0176-100400-001-g04 BN0176 Homo sapiens cDNA
1305	14054	26728	0.93	4.0E-67	R00819.1	EST_HUMAN	Yn02d11.1 Soares adult brain N2644B55Y Homo sapiens cDNA clone IMAGE:167253 5'
7920	20615	33743	0.82	4.0E-67	AI733032.1	EST_HUMAN	Q61790 ZINC FINGER PROTEIN 33A;
8281	20975		1.24	4.0E-67	BF357321.1	EST_HUMAN	RC0-HT0834-150900-028-c03 HT0834 Homo sapiens cDNA
10696	23669					EST_HUMAN	rw08a07.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1238472 3' similar to TR:O10385 O10385
2610	15399	26031	1.39	4.0E-67	AA714294.1	EST_HUMAN	PRO-POL-DUTPASE POLYPROTEIN;
3446	16202	28852	1.55	3.0E-67	AA333788.1	EST_HUMAN	EST17803 Embryo, 8 week Homo sapiens cDNA 5' end
4646	17380	30012	0.88	3.0E-67	BE064410.1	EST_HUMAN	RC4-BT0311-141189-011-H06 BT0311 Homo sapiens cDNA
			2.87	3.0E-67	AW1669159.1	EST_HUMAN	MFS-SN0068-040500-008-R01 SN0068 Homo sapiens cDNA
8081	20775	33905	1.53	3.0E-67	BF166068.1	EST_HUMAN	hw1605.x1 NCI_CGAP_Kid1 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
11224	23987		14.39	3.0E-67	AA927874.1	EST_HUMAN	cm18a07.s1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1541365 3'
183	12998	25635	0.81	2.0E-67	BE348354.1	EST_HUMAN	hw16g09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183136 3' similar to WP:F23H11.9
825	13595	26265	7.3	2.0E-67	AW816405.1	EST_HUMAN	CE09617;
1083	13841		1.75	2.0E-67	AF167460.1	NT	QV4-ST0234-181189-037-405 ST0234 Homo sapiens cDNA
						NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exons 2a, 2, 3, and 4

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1877	14814	27325	1.36	2.0E-67	BE303037.1	EST_HUMAN	ba72q05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905978 5' similar to TR:094892 094892 KIAA0798 PROTEIN.;
1877	14814	27326	1.36	2.0E-67	BE303037.1	EST_HUMAN	ba72q05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905978 5' similar to TR:094892 094892 KIAA0798 PROTEIN.;
2235	14963	27702	1.3	2.0E-67	11422946	NT	Homo sapiens hypothetical protein dJ482023.2 (DJ482023.2), mRNA
2235	14963	27703	1.3	2.0E-67	11422946	NT	Homo sapiens hypothetical protein dJ482023.2 (DJ482023.2), mRNA
2384	15105	27845	1.09	2.0E-67	AF308581.1	NT	Homo sapiens KRAB zinc finger protein ZF-QR mRNA, complete cds
2432	15163	27887	1.28	2.0E-67	4758785	NT	Homo sapiens developmentally regulated GTP-binding protein 1 (DRG1), mRNA
3480	16216	28870	3.8	2.0E-67	AA625755.1	EST_HUMAN	z091g01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:745392 3'
3984	16732	29366	3.03	2.0E-67	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
5991	18762	31726	0.6	2.0E-67	AL049784.1	NT	Novel human gene mapping to chromosome 13
6034	18814	31774	5.54	2.0E-67	BF240758.1	EST_HUMAN	601875351F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4081893 5'
6203	18978	31856	2.46	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
6203	18978	31857	2.46	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
6545	19310	32315	0.76	2.0E-67	AL120542.1	EST_HUMAN	DKFZp761A229_r1 761 (synonym: hemy2) Homo sapiens cDNA clone DKFZp761A229 5'
8456	21148	34280	0.82	2.0E-67	AA334606.1	EST_HUMAN	EST38850 Embryo, 9 week Homo sapiens cDNA 5' end similar to cerebellin
8456	21148	34291	0.82	2.0E-67	AA334606.1	EST_HUMAN	EST38850 Embryo, 9 week Homo sapiens cDNA 5' end similar to cerebellin
8895	21596	34724	1.21	2.0E-67	AW602835.1	EST_HUMAN	RC4-BT0568-170100-011-c07 BT0568 Homo sapiens cDNA
8895	21596	34725	1.21	2.0E-67	AW602835.1	EST_HUMAN	RC4-BT0568-170100-011-c07 BT0568 Homo sapiens cDNA
8456	22076	35246	0.83	2.0E-67	AV731333.1	EST_HUMAN	RC4-BT0568-170100-011-c07 BT0568 Homo sapiens cDNA
8608	22281	35447	0.97	2.0E-67	AW283624.1	EST_HUMAN	AV731333 HTF Homo sapiens cDNA clone HTFARD03 5'
10670	23646	36989	3.72	2.0E-67	BF034485.1	EST_HUMAN	UHH-B12-ehm-e-10-Q-UJ.s1 NCI CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727283 3'
10688	25433		4.67	2.0E-67	11436448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
11103	23858	37145	2.11	2.0E-67	BE285714.1	EST_HUMAN	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
11434	23201	36433	1.88	2.0E-67	BF377169.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
12235	25231	30819	1.36	2.0E-67	11418189	NT	PM2-TN0103-Q40900-001-c02 TN0103 Homo sapiens cDNA
12527	24874	31018	2.05	2.0E-67	11417877	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
							Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
246	13055	25695	9.34	1.0E-67	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
692	19467	28114	1.01	1.0E-67	AA702794.1	EST_HUMAN	z60b04.s1 Soares_fetal_liver_spleen_1NHS.S1 Homo sapiens cDNA clone IMAGE:448015 3'
11845	24429	37770	8.58	1.0E-67	AG54867.1	EST_HUMAN	wf65c12.x1 NCI CGAP_GC8 Homo sapiens cDNA clone IMAGE:2310550 3'
2174	14903	27638	2.13	8.0E-68	BE870732.1	EST_HUMAN	601448558F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3852254 5'
3851	16801	29238	4.96	8.0E-68	AA209456.1	EST_HUMAN	z082h10.1 Striatagene NHT neuron (#837233) Homo sapiens cDNA clone IMAGE:648163 5' similar to SW:SAV_SULAC Q07590 SAV PROTEIN.;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF-SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3651	16601	26239	4.98	8.0E-68	AA209456.1	EST_HUMAN	z682h10.11 Strategene HNT neuron (#837233) Homo sapiens cDNA clone IMAGE:848163 5' similar to SW:SAV_SULAC Q07560 SAV PROTEIN.;
8000	20695	33822	0.55	7.0E-68	AB10505.1	EST_HUMAN	W88603.x1 NCI CGAP P128 Homo sapiens cDNA clone IMAGE:2312860 3'
7737	20402	33518	0.58	8.0E-68	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
10347	22894	36213	2.47	8.0E-68	11422088	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
11097	23767	37042	1.81	6.0E-68	AF133901.1	NT	Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
12629	24875		1.78	8.0E-68	BE612554.1	EST_HUMAN	601452087F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3855781 5'
12772	25026	30963	1.4	8.0E-68	BF310675.1	EST_HUMAN	601894835F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124144 5'
800	13572	26233	5.05	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
800	13572	26234	5.05	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
2783	15488	26226	1.36	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3144	15908	28553	3.23	5.0E-68	AB037852.1	NT	Homo sapiens mRNA for KIAA1431 protein, partial cds
4457	17193	29819	0.73	5.0E-68	AL157845.1	EST_HUMAN	DKFZp547D207.1 547 (synonym: hbr1) Homo sapiens cDNA clone DKFZp547D207.5
6827	19389	32402	0.81	5.0E-68	7019512	NT	Homo sapiens RAB3A interacting protein (rab3)-like 1 (RAB3IL1), mRNA
6827	19389	32403	0.81	5.0E-68	7019512	NT	Homo sapiens RAB3A interacting protein (rab3)-like 1 (RAB3IL1), mRNA
4918	17846		9.55	4.0E-68	IP04408	SWISSPROT	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, LIVER
5098	17817	30434	0.87	4.0E-68	7549804	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
5874	18661	31802	0.7	4.0E-68	AF157063.1	NT	Homo sapiens eedlin (SEDL) gene, exon 4
6875	19592	32629	8.51	4.0E-68	11055891	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
6875	19592	32630	8.51	4.0E-68	11055891	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
7582	20250	33356	0.66	4.0E-68	7681683	NT	Homo sapiens DKFZP586L0724 protein (DKFZP586L0724), mRNA
8838	21629	34771	5.05	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
8838	21629	34772	5.05	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
9077	21766	34826	3.08	4.0E-68	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
10925	23805	36854	1.68	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
10925	23805	36855	1.68	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
11115	23785	37081	1.26	4.0E-68	AB040948.1	NT	Homo sapiens mRNA for KIAA1515 protein, partial cds
11828	24412	37749	1.39	4.0E-68	AJ261760.1	NT	Homo sapiens NESP55, GNAS1 antisense (partial) and X1 alpha (partial) genes
11864	24448	37788	12.15	4.0E-68	4758267	NT	Homo sapiens echinoderm microtubule-associated protein-like (EMAPL), mRNA
11864	24448	37790	12.15	4.0E-68	4758267	NT	Homo sapiens echinoderm microtubule-associated protein-like (EMAPL), mRNA
3653	16406	29045	5.37	3.0E-68	AF236082.1	NT	Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds
9357	20428		5.82	3.0E-68	AJ342323.1	EST_HUMAN	q38h02.x1 Soares, fetal, lung, NH-L19W Homo sapiens cDNA clone IMAGE:1050201 3' similar to contains THR12 THR repetitive element;

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10389	23045	36281	1.23	3.0E-68	F28784.1	EST_HUMAN	HSPD18178 HM3 Homo sapiens cDNA clone s3000023D09
2885	17883		15.31	2.0E-68	D00522.1	NT	Cricetulus longicaudatus mRNA for EF-1 alpha, complete cds
4633	17368	30004	1.38	2.0E-68	AB008881.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
6778	18520		9.64	2.0E-68	R46088.1	EST_HUMAN	y938g04.s1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:34896 3'
6963	19445	32462	5.38	2.0E-68	BF035316.1	EST_HUMAN	601458514F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882034 5'
7270	18654	33030	0.73	2.0E-68	BF336745.1	EST_HUMAN	IL3-CT0534-180900-273-A01 CT0534 Homo sapiens cDNA
8848	21539	34685	0.63	2.0E-68	Q05859	SWISSPROT	FORMIN 4 (LIMB DEFORMITY PROTEIN)
10505	23151	36376	0.75	2.0E-68	N78483.1	EST_HUMAN	y278d07.r1 Soares multiple sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:289165 5'
11210	23673	37160	1.66	2.0E-68	BF330594.1	EST_HUMAN	QV0-BT0074-130989-014-g04 BT0074 Homo sapiens cDNA
77	12903	25641	1	1.0E-68	4605222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MIN1), mRNA
289	13095	25737	13	1.0E-68	AW816405.1	EST_HUMAN	QV4-ST0234-181189-037-f05 ST0234 Homo sapiens cDNA
2249	14977	27716	1.03	1.0E-68	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
2249	14977	27716	1.03	1.0E-68	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
3981	16739	28373	0.95	1.0E-68	BE286032.1	EST_HUMAN	601177002F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532344 5'
4969	17694	30302	0.82	1.0E-68	AA897343.1	EST_HUMAN	el47g12.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460518 3'
5239	18045	30674	1.37	1.0E-68	7662349	NT	Homo sapiens cell recognition molecule Casp2 (KIAA0868), mRNA
7576	20245	33350	1	1.0E-68	11436716	NT	Homo sapiens sentrin/SUMO-specific protease (SENPA), mRNA
10373	23018	36235	0.6	1.0E-68	AA429638.1	EST_HUMAN	zw74d02.r1 Soares_testes_NHT Homo sapiens cDNA clone IMAGE:781923 5'
10758	23441	36885	1.85	1.0E-68	11418869	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
10758	23441	36888	1.85	1.0E-68	11418869	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
10819	23502	36741	3.5	1.0E-68	L76416.1	NT	Homo sapiens MIF2 suppressor (HSMF2) mRNA, complete cds
11148	23815	37098	1.71	1.0E-68	11433277	NT	Homo sapiens myosin IC (MYO1C), mRNA
11226	23889	37176	1.62	1.0E-68	AF043129.1	NT	Homo sapiens interleukin-7 receptor precursor (IL7R) gene, exons 7 and 8 and complete cds
11270	23931	37223	1.28	1.0E-68	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11270	23931	37224	1.28	1.0E-68	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11688	24261	37584	1.48	1.0E-68	11418431	NT	Homo sapiens CGI-78 protein (LOC51632), mRNA
11666	24261	37685	1.48	1.0E-68	11418431	NT	Homo sapiens CGI-78 protein (LOC51632), mRNA
12511	12903	25541	2.66	1.0E-68	4505222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MIN1), mRNA
12718	25322	30712	2.11	1.0E-68	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
19	12847	26480	1.16	9.0E-69	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
19	12847	25461	1.16	9.0E-69	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
1006	13766	26426	1.41	9.0E-69	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1006	13766	26427	1.41	9.0E-69	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
2275	15001	27740	1.15	9.0E-69	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2275	15001	27741	1.15	9.0E-69	4759279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4109	16852	29479	0.71	9.0E-69	4757867	NT	Homo sapiens v-rat murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
10805	23498		6.5	9.0E-69	AU117241.1	EST_HUMAN	AU117241 HEMBA1 Homo sapiens cDNA clone HEMBA1000988 5'
3381	16140		1.09	8.0E-69	AJ237744.1	NT	Homo sapiens RIBIIR gene (partial), exon 12
6259	19033	32008	6.49	7.0E-69	9969912	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
7762	20458	33591	9.09	6.0E-69	AI182764.1	EST_HUMAN	q62h01.x1 Soares_fetal_lung_NH-L19W Homo sapiens cDNA clone IMAGE:1743801 3' similar to gbL111588 60S RIBOSOMAL PROTEIN L18 (HUMAN);
7762	20458	33582	9.09	6.0E-69	AI182764.1	EST_HUMAN	q62h01.x1 Soares_fetal_lung_NH-L19W Homo sapiens cDNA clone IMAGE:1743801 3' similar to gbL111588 60S RIBOSOMAL PROTEIN L18 (HUMAN);
8873	21564	34709	1.01	5.0E-69	AA826039.1	EST_HUMAN	cd80a03.81 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1372300 3'
507	13291		1.76	4.0E-69	AI873630.1	EST_HUMAN	wm28h11.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437125 3'
5674	25073	31384	1.42	4.0E-69	BE561063.1	EST_HUMAN	601344706F1 NIH_MGC 8 Homo sapiens cDNA clone IMAGE:3677641 5'
5763	18546	31467	5.28	4.0E-69	AI764973.1	EST_HUMAN	wh57606.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2384819 3' similar to TR:055137
6531	19297	32301	2.71	4.0E-69	4557732	NT	O55137 ACYL-COA THIOESTERASE ;
6531	19297	32302	2.71	4.0E-69	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8812	21604	34651	0.52	4.0E-69	AU118634.1	EST_HUMAN	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
377	13202	29948	3.69	3.0E-69	BE258012.1	EST_HUMAN	AU118634 HEMBA1 Homo sapiens cDNA clone HEMBA1006283 5'
598	13376	26008	2.32	3.0E-69	AF221712.1	NT	601110371F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3351352 5'
							Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
1548	14264		3.19	3.0E-69	T80514.1	EST_HUMAN	yd08a02.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:24880 5' similar to SP:A48838
5163	17894	37797	3.64	3.0E-69	11418185	NT	A48838 SPEG III-EGF REPEAT-CONTAINING FIBROPELIN-LIKE PROTEIN - SEA URCHIN ;
							Homo sapiens acetylase 2, mitochondrial (ACO2), mRNA
6705	19920		0.67	3.0E-69	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5'(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
6769	17928	30563	0.74	3.0E-69	11426796	NT	Homo sapiens sperm surface protein (HSS), mRNA
7272	19958	33032	0.68	3.0E-69	AF065703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7320	20003	33082	1.83	3.0E-69	U52351.1	NT	Homo sapiens anti-repeat protein NFRAP/heparin (CTNND2) mRNA, partial cds
7451	20127	33219	8.32	3.0E-69	AF268075.1	NT	Homo sapiens TRAF8-binding protein TABP mRNA, complete cds
8270	20984	34106	0.88	3.0E-69	AW138846.1	EST_HUMAN	UI-H-B11-ecw-g-01-Q.U1.1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2715840 3'
8666	21358		0.65	3.0E-69	AA376399.1	EST_HUMAN	EST86807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
8313	21980	35152	1.01	3.0E-69	X13223.1	NT	H. sapiens mRNA for N-acetylglucosaminide-(beta 1-4)-galactosyltransferase

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9433	22111	35286	2.03	3.0E-69	X06233.1	NT	Human mRNA for calcium-binding protein in macrophages (MRP-14) macrophage migration inhibitory factor (MIF)-related protein
9729	22380	35582	0.75	3.0E-69	5730036	NT	Homo sapiens SEC10 (S. cerevisiae) like 1 (SEC10L1), mRNA
10538	22335	38468	1.44	3.0E-69	11432120	NT	Homo sapiens ribosomal protein S15a (RPS15A), mRNA
10745	23432		7.81	3.0E-69	AA376309.1	EST_HUMAN	EST88807 HSC172 cells II Homo sapiens cDNA 5' and similar to similar to ribosomal protein S18
12024	24552		5.17	3.0E-69	11419157	NT	Homo sapiens HGO8.2 protein (HGO8.2), mRNA
126	13180	25827	1.64	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
126	13180	25828	1.64	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
395	13180	25827	10.33	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
395	13180	25828	10.33	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
1878	14615	27327	2.08	2.0E-69	BE287857.1	EST_HUMAN	601109444F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350074 5'
2848	15616		3.16	2.0E-69	AA431157.1	EST_HUMAN	zw71g02.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:781882 5'
8432	21144	34284	1.08	2.0E-69	AA114270.1	EST_HUMAN	zn29g01.r1 Strabagene pancreas (#837208) Homo sapiens cDNA clone IMAGE:527088 5'
1698	14441	27139	1.98	1.0E-69	AF053768.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP80 mRNA, partial cds
4862	17687		0.74	1.0E-69	BE408094.1	EST_HUMAN	601301284F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635781 5'
5869	18741	31700	0.87	1.0E-69	BE902501.1	EST_HUMAN	601675789F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'
5869	18741	31701	0.87	1.0E-69	BE902501.1	EST_HUMAN	601675789F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'
6508	19273	32274	4.37	1.0E-69	AW393989.1	EST_HUMAN	QV0-1T0010-031193-045-c07 T10010 Homo sapiens cDNA
6721	18636	32678	1.26	1.0E-69	7682283	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6737	18636	32680	1.26	1.0E-69	7682283	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6737	18571	32603	3.01	1.0E-69	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
6737	18571	32604	3.01	1.0E-69	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
6782	18528	32554	1.14	1.0E-69	BE631007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3810814 5'
6782	18628	32555	1.14	1.0E-69	BE631007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3810814 5'
10073	22721	35837	4.91	1.0E-69	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TC8A Homo sapiens cDNA clone TCBAP2678
10073	22721	35838	4.91	1.0E-69	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TC8A Homo sapiens cDNA clone TCBAP2678
10168	22816	36034	1.38	1.0E-69	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
10314	22861	36177	0.57	1.0E-69	BF528428.1	EST_HUMAN	602043782F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4181325 5'
10782	23485		10.52	1.0E-69	4604918	NT	Homo sapiens keratin 8 (KRT8) mRNA
11984	24512	37261	1.74	1.0E-69	BF125887.1	EST_HUMAN	601782802F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4025785 5'
12368	24769		4.45	1.0E-69	AI808894.1	EST_HUMAN	wf64a08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360390 3' similar to contains Alu repetitive element; contains element MIR repetitive element;

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2331	15591	27791	2.08	8.0E-70	AA230303.1	EST_HUMAN	nc13d12.11 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:1008023
4340	17079	29708	1.93	8.0E-70	L77568.1	NT	Homo sapiens DGS-1 mRNA, 3' end
1808	14546	27260	1.01	7.0E-70	AI497807.1	EST_HUMAN	fm89f01.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2165305 3'
1808	14546	27261	1.01	7.0E-70	AI497807.1	EST_HUMAN	fm89f01.x1 NCI_CGAP_Brn26 Homo sapiens cDNA clone IMAGE:2165305 3'
1923	14680	27371	1.86	7.0E-70	AA282956.1	EST_HUMAN	z15f104.11 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:719239 5'
2056	14788		2.92	7.0E-70	5031668	NT	Homo sapiens tumor suppressor deleted in oral cancer-related 1 (DOC-IR) mRNA
4199	16940	29566	3.87	7.0E-70	4757723	NT	Homo sapiens adenylate cyclase 3 (ADCY3) mRNA
5395	18185	30888	4.88	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
5395	18185	30889	4.88	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6826	19487	32509	2.16	7.0E-70	AJ000052.1	NT	Homo sapiens gene encoding splicing factor SF-1, exons 2-8
8330	21023	34189	2.2	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8330	21023	34180	2.2	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8622	21314	34457	3.68	7.0E-70	M74098.1	NT	Human displacement protein (CCAAT) mRNA
8622	21314	34458	3.68	7.0E-70	M74098.1	NT	Human displacement protein (CCAAT) mRNA
9055	21744	34902	3.8	7.0E-70	X58941.1	NT	Human PBX3 mRNA
9055	21744	34903	3.8	7.0E-70	X58941.1	NT	Human PBX3 mRNA
9335	20409	33522	3.43	7.0E-70	AF163715.1	NT	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
9361	20431	33551	2.69	7.0E-70	11525984	NT	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA
9361	20431	33552	2.69	7.0E-70	11525984	NT	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA
9556	22209	35394	0.57	7.0E-70	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
10196	22844	36058	0.62	7.0E-70	AB036429.1	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
10196	22844	36059	0.62	7.0E-70	AB036429.1	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
11010	23682	36941	1.54	7.0E-70	11429885	NT	Homo sapiens specific paraplegia 4 (autosomal dominant; spessin) (SPG4), mRNA
11010	23682	36942	1.54	7.0E-70	11429885	NT	Homo sapiens specific paraplegia 4 (autosomal dominant; spessin) (SPG4), mRNA
11597	24186	37515	1.65	7.0E-70	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
11597	24186	37516	1.65	7.0E-70	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
851	13621	26291	1.77	6.0E-70	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease resistant; Alzheimer disease) (APP), mRNA
2133	14863	27593	1.21	6.0E-70	M30838.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
2513	15230	27970	1.22	6.0E-70	88223699	NT	Homo sapiens CMP-N-acetylneuraminic acid synthase (LOC55907), mRNA
2555	15598	28003	2.18	5.0E-70	7682307	NT	Homo sapiens KIAA0782 gene product (KIAA0782), mRNA

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exam SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2656	15698	28004	2.18	5.0E-70	7682307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA
11874	24518		2.75	5.0E-70	BE168034.1	EST_HUMAN	MF3-H7D487-150200-115-a06 HT0487 Homo sapiens cDNA
6856	19417	32431	1.03	4.0E-70	T06037.1	EST_HUMAN	EST03928 Fetal brain, Striatum (cat8936206) Homo sapiens cDNA clone HFBDN25
6856	19813	32653	1.78	4.0E-70	AW783226.1	EST_HUMAN	CNA4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
6856	19813	32854	1.78	4.0E-70	AW783226.1	EST_HUMAN	CNA4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
1594	14330	27016	1.23	3.0E-70	BE071798.1	EST_HUMAN	RC0-BT0522-071299-011-a12 BT0522 Homo sapiens cDNA
1594	14330	27017	1.23	3.0E-70	BE071798.1	EST_HUMAN	RC0-BT0522-071299-011-a12 BT0522 Homo sapiens cDNA
5532	18330	31234	0.85	3.0E-70	11430888	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
5532	18330	31235	0.85	3.0E-70	11430888	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
5955	18842	31581	1.8	3.0E-70	A1831875.1	EST_HUMAN	wf90d03.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2388005 3'
6280	19053	32031	1.65	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4302806 5'
6280	19053	32032	1.65	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4302806 5'
10008	22658	35858	0.68	3.0E-70	BE502973.1	EST_HUMAN	hz81h02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214419 3'
37	12865	25484	1.2	2.0E-70	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
673	13449	26089	14.09	2.0E-70	N42161.1	EST_HUMAN	W07a10.1 Scores melanocyte 2Nblm Homo sapiens cDNA clone IMAGE:270522 5' similar to SW:D3H1_RAT P29268 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
673	13449	26089	14.09	2.0E-70	N42161.1	EST_HUMAN	W07a10.1 Scores melanocyte 2Nblm Homo sapiens cDNA clone IMAGE:270522 5' similar to SW:D3H1_RAT P29268 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
689	13464	28113	1.7	2.0E-70	A1246899.1	EST_HUMAN	q51h01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2004913 3'
1000	13780	28421	1.56	2.0E-70	8823668	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
1161	13915	28578	3.05	2.0E-70	7661983	NT	Homo sapiens KIAA0183 gene product (KIAA0183), mRNA
1161	13915	28579	3.05	2.0E-70	7661983	NT	Homo sapiens KIAA0183 gene product (KIAA0183), mRNA
1736	14478	27177	1.66	2.0E-70	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2318	15043		5.32	2.0E-70	AA054010.1	EST_HUMAN	Zf48g04.1 Scores retina N2b4-HR Homo sapiens cDNA clone IMAGE:380214 5' similar to SW:GAG_HTL1A
3615	16368	29011	0.78	2.0E-70	H37988.1	EST_HUMAN	P03345 GAG POLYPROTEIN ;
4027	16772	29404	5.06	2.0E-70	M69181.1	NT	Yp58b04.LT Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:161589 5'
5428	18227	30939	8.7	2.0E-70	X72662.1	NT	Human nonmuscle myosin heavy chain-B (MYH10) mRNA, partial cds
5428	18227	30940	8.7	2.0E-70	X72662.1	NT	H.sapiens gene for schwannomin (CS8)
6111	18868	31857	1.27	2.0E-70	AF310105.1	NT	H.sapiens gene for schwannomin (CS8)
6538	19303	32307	1.75	2.0E-70	D12625.1	NT	Homo sapiens NALP1 mRNA, complete cds
6569	19333	32342	12.14	2.0E-70	AF123074.1	NT	Human mRNA for NF1 protein isoform (neurofibromin isoform), complete cds
6569	19333	32343	12.14	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6569	19333	32343	12.14	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6897	17873	30530	1.68	2.0E-70	114222642	NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminide alpha 2,3-sialyltransferase) (SIAT6), mRNA
7303	19986	33062	0.76	2.0E-70	AF288207.1	NT	Homo sapiens cysteinyl-RNA synthetase mRNA, complete cds, alternatively spliced
7819	20514	33639	9.02	2.0E-70	M21741.1	NT	Human guanine nucleotide-binding protein alpha-subunit gene (G-a-alpha), exons 4 and 5
8121	20815	33951	0.5	2.0E-70	11423599	NT	Homo sapiens amylo-1,6-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzyme, glycogen storage disease type III) (AGL), mRNA
8558	21250		0.8	2.0E-70	H47959.1	EST_HUMAN	yp79g02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:193682 6'
9087	21756	34918	0.95	2.0E-70	11526355	NT	Homo sapiens dynactin p82 subunit (LOC51184), mRNA
10038	22886	35904	1.46	2.0E-70	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10500	23146	36373	0.47	2.0E-70	AB033042.1	NT	Homo sapiens mRNA for KIAA1216 protein, partial cds
11005	23677	36933	3.75	2.0E-70	8923420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11005	23677	36934	3.75	2.0E-70	8923420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11639	24236	37559	7.32	2.0E-70	4503520	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 6 (48kD) (EIF3S6) mRNA
12353	24757	31058	3.06	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12353	24757	31059	3.06	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3388	16147		2.63	1.0E-70	4507476	NT	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase) (TGM3) mRNA
9180	21850		0.69	1.0E-70	W85795.1	EST_HUMAN	zf155g05.r1 Soares fetal liver spleen 1NFLS_S1 Homo sapiens cDNA clone IMAGE:416024 5'
9898	22349		0.65	1.0E-70	AA442292.1	EST_HUMAN	z64c03.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:757444 5'
10852	23532	36777	7.13	1.0E-70	AV738538.1	EST_HUMAN	AV738538 CB Homo sapiens cDNA clone CBLBGB10 5'
5854	18641	31578	7.06	9.0E-71	AI143870.1	EST_HUMAN	qe04f01.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045
5854	18641	31580	7.06	9.0E-71	AI143870.1	EST_HUMAN	O14045 PHOSPHOTRANSFERASE ;
6832	19688	32714	2.23	9.0E-71	AI654903.1	EST_HUMAN	qe04f01.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045
11508	19688	32714	4.79	9.0E-71	AI654903.1	EST_HUMAN	O14045 PHOSPHOTRANSFERASE ;
8968	21658		5.03	8.0E-71	AA171451.1	EST_HUMAN	w652c05.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
7275	19659	33036	8.9	7.0E-71	AA442230.1	EST_HUMAN	CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
8578	21270	34408	1.02	7.0E-71	AA705457.1	EST_HUMAN	w652c05.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
11302	23961	37262	2.07	7.0E-71	AL163210.2	NT	CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
2207	14935	27673	5.97	5.0E-71	AF056322.1	NT	zp21.d11.1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:610101 5' similar to TR:G1143061 STRAIN XA34 POL ;
							TR:G1143061 STRAIN XA34 POL ;
							z60h06.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:758075 5'
							z60h06.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:758075 5'
							Homo sapiens chromosome 21 segment HS21C010
							Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4101	18844	28472	1.36	5.0E-71	AW816405.1	EST_HUMAN	QV4-ST0234-181189-037-05 ST0234 Homo sapiens cDNA
5780	18881	31508	2.23	5.0E-71	4502740	NT	Homo sapiens cyclin-dependent kinase 9 (CDK9) mRNA
6584	19328	32336	1.42	5.0E-71	11041408	NT	Homo sapiens keratin, hair, acidic, 7 (KRTHA7), mRNA
6821	19482	32504	1.43	5.0E-71	7862209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
6878	17954	30550	0.62	5.0E-71	AB033108.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
6878	17954	30551	0.62	5.0E-71	AB033106.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
7046	19737	32798	0.76	5.0E-71	11431690	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7410	20087	33171	1.47	5.0E-71	M38106.1	NT	Human neurofibromatosis protein type 1 mRNA, 3' end of cds
7807	20273	33381	0.75	5.0E-71	11528445	NT	Homo sapiens MAGUK protein p57: Protein Associated with Lhs 2 (LOC51678), mRNA
7834	20289	33408	22.58	5.0E-71	AF072810.1	NT	Homo sapiens transcription factor WSTF mRNA, complete cds
8421	21114	34261	0.61	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFRKB) mRNA
8421	21114	34252	0.61	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFRKB) mRNA
8811	22462		2.67	5.0E-71	X13487.1	NT	Human PrP ^{Sc} gene for Alzheimer's disease A4 amyloid protein precursor (exon 2)
10530	23227	38461	1.45	5.0E-71	5729800	NT	Homo sapiens IGF-II mRNA-binding protein 3 (KOC1), mRNA
10901	23981	39831					Homo sapiens pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective tissue-activating peptide III, neutrophil-activating peptide-2) (PPBP), mRNA
11147	23814	37097	2.57	5.0E-71	11438069	NT	Homo sapiens similar to hypothetical protein FLJ20163 (H. sapiens) (LOC83326), mRNA
340	13141	25778	102.7	4.0E-71	AF157628.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
340	13141	25779	102.7	4.0E-71	AF157628.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
2888	15658	28289	1.97	4.0E-71	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4394	17131	29762	3.37	4.0E-71	AF058322.1	NT	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds
4826	17654	30288	5.57	4.0E-71	7657902	NT	Homo sapiens putative heme-binding protein (SOL), mRNA
5089	17788	30404					Homo sapiens cofactor required for Sp1 transcriptional activation, subunit 3 (130kD) (CRSP3), mRNA
7833	20828		1.1	4.0E-71	7018352	NT	AU135734 PLACE1 Homo sapiens cDNA clone IMAGE1002775 5'
			1.41	3.0E-71	AU135734.1	EST_HUMAN	n45r10.s1 NC1 CGAP_P14 Homo sapiens cDNA clone IMAGE:1043683 similar to contains PTR5.k3 PTR5
10591	23285	36523	3.38	3.0E-71	AA557683.1	EST_HUMAN	repetitive element;
1208	13959	26626	2.02	2.0E-71	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
5237	18043	30672	8.24	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
5237	18043	30673	8.24	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
6871	17948	30543	0.55	2.0E-71	AL042439.1	EST_HUMAN	DKFZp434D1721_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434D1721 5'
							7n85c11.x1 NC1 CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3571221 3' similar to TR-Q9Z165
8903	21594	34735	0.84	2.0E-71	BF195585.1	EST_HUMAN	Q9Z165 PUTATIVE FOUR REPEAT ION CHANNEL ;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10485	23131	30357	3.88	2.0E-71	AF085703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10485	23131	36358	3.88	2.0E-71	AF085703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10583	23287	30524	3.21	2.0E-71	BE018477.1	EST_HUMAN	bb81a06.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048754 5' similar to SW.R23B_HUMAN P64727 UV EXCISION REPAIR PROTEIN RAD23 HOMOLOG B ;
11552	24151	37463	1.35	2.0E-71	BF149173.1	EST_HUMAN	Tm1022 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gi 6598881
11552	24151	37464	1.36	2.0E-71	BF149173.1	EST_HUMAN	Tm1022 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gi 6598881
11678	24175	37460	2.35	2.0E-71	R55626.1	EST_HUMAN	X77c11.1 Scores breast 2N1H18st Homo sapiens cDNA clone IMAGE:164772 5'
12038	24561		8.43	2.0E-71	T95489.1	EST_HUMAN	ye43a09.t1 Scores fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:120520 5'
623	13402	28037	1.83	1.0E-71	A077827.1	EST_HUMAN	oy15a03.s1 Scores_sarcomatous_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:1655916 3' similar to contains LOR1.b2 LOR1 repetitive element ;
820	13687	28351	2.37	1.0E-71	7706281	NT	Homo sapiens neuronal cell death-related protein (LOC51616), mRNA
1078	13838	26494	6.15	1.0E-71	AF206890.1	NT	Homo sapiens disabled-2 gene, exons 2 through 15 and complete cds
1317	14066	28740	11.71	1.0E-71	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
2074	14808	27536	1.38	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2074	14808	27537	1.38	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2698	15407	28142	3.91	1.0E-71	7657153	NT	Homo sapiens hairyenhancer-of-split related with YRPW motif-like (HEY1), mRNA
3483	16249	28903	2.53	1.0E-71	AF119665.1	NT	Homo sapiens inorganic pyrophosphatase mRNA, complete cds
3583	16338	28982	5.88	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3583	16338	28983	5.88	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3639	16392	29031	0.98	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
3639	16392	29032	0.98	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
3724	16477	29114	2	1.0E-71	AF218304.1	NT	Homo sapiens atracrin precursor (ATRN) gene, exon 19
4437	17173	29801	1.92	1.0E-71	D28476.1	NT	Human mRNA for KIAA0045 gene, complete cds
4552	17287	29916	0.98	1.0E-71	H23176.1	EST_HUMAN	ym56h10.l1 Scores infant brain 1N1B Homo sapiens cDNA clone IMAGE:52528 5'
6843	19405	32420	1.07	1.0E-71	11426182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
6986	19579	32726	1.39	1.0E-71	AB011131.1	NT	Homo sapiens mRNA for KIAA0659 protein, partial cds
7211	19890	32971	13.35	1.0E-71	U60753.1	NT	Homo sapiens CAGL79 mRNA, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8046	20740	33872	0.89	1.0E-71	AF105267.1	NT	Homo sapiens glycican-6 (GPC6) mRNA, complete cds
8089	20763	33891	2.26	1.0E-71	11425430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
8345	21038	34174	4.09	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA
8345	21038	34175	4.09	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA
9128	21816	34982	0.78	1.0E-71	S72393.1	NT	CSNK2A1=casin kinase II (CKII) subunit alpha [human, Genomic, 18862 nt]
9908	22557	35762	7.89	1.0E-71	AY007643.1	NT	Homo sapiens cytochrome c oxidase subunit VIIa-related protein gene, complete cds
9988	22616		2.05	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10438	23082	36309	1.45	1.0E-71	11433142	NT	Homo sapiens activated leukocyte cell adhesion molecule (ALCAM), mRNA
10894	23375		2.68	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10796	23479	36720	2.19	1.0E-71	11418903	NT	Homo sapiens coagulation factor XIII, A1 polypeptide (F13A1), mRNA
11093	23763	37037	1.73	1.0E-71	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
11093	23763	37038	1.73	1.0E-71	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
12401	24786		4.96	1.0E-71	AB011398.1	NT	Homo sapiens gene for AF-6, complete cds
398	13183	25830	1.72	9.0E-72	A1857635.1	EST_HUMAN	wk5g03.x1 NCI CGAP Lu19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:O86705 O86705
398	13183	25831	1.72	9.0E-72	A1857635.1	EST_HUMAN	HYPOTHETICAL 38.6 KD PROTEIN, contains Alu repetitive element;
6020	18801	31782	0.97	8.0E-72	BF035752.1	EST_HUMAN	wk5g03.x1 NCI CGAP Lu19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:O86705 O86705
							HYPOTHETICAL 38.6 KD PROTEIN, contains Alu repetitive element;
							601458747F1 NIH MGC 88 Homo sapiens cDNA clone IMAGE:3862451 5'
4092	16834	29458	2.63	7.0E-72	4501868	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4092	16834	29459	2.63	7.0E-72	4501868	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4092	16834	29460	2.63	7.0E-72	4501868	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
7024	19716	32773	2.99	7.0E-72	S41694.1	NT	[pseudogene] PTMAP2=prathymosin alpha [human, Genomic, 1192 nt, segment 2 of 3]
12620	24868		1.9	7.0E-72	F26259.1	EST_HUMAN	HSPD13670 HMs Homo sapiens cDNA clone s4000051G02
6283	20977		4.14	6.0E-72	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
60	12889	25521	1.06	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-388-e11 CS0010 Homo sapiens cDNA
60	12889	25522	1.06	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-388-e11 CS0010 Homo sapiens cDNA
61	12889	25521	3.47	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-388-e11 CS0010 Homo sapiens cDNA
61	12889	25522	3.47	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-388-e11 CS0010 Homo sapiens cDNA
1117	13874		3.62	6.0E-72	L11845.1	NT	Homo sapiens alpha-tubulin mRNA, complete cds
6851	19551	32581	1.59	5.0E-72	AU128584.1	EST_HUMAN	AU128584 NT2RP2 Homo sapiens cDNA clone NT2RP2003751 5'

Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7731	20394	33509	0.73	5.0E-72	AA316832.1	EST_HUMAN	EST188312 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to similar to FAC1
8676	21367	34514	3.71	6.0E-72	AW161274.1	EST_HUMAN	eu80c03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782564 5' similar to TR:Q98786 Q98785 HYPOTHETICAL 32.4 KD PROTEIN ;contains element MSR1 repetitive element ;
9861	22511	35708	0.89	5.0E-72	AV724632.1	EST_HUMAN	AV724632 HTB Homo sapiens cDNA clone HTBAKB01 5'
11208	23871	37157	3.45	5.0E-72	BF331571.1	EST_HUMAN	MR4-BT0588-010600-005-005 BT0588 Homo sapiens cDNA
11208	23871	37158	3.45	5.0E-72	BF331571.1	EST_HUMAN	MR4-BT0588-010600-005-005 BT0588 Homo sapiens cDNA
11643	24240	37563	1.61	5.0E-72	BE208545.1	EST_HUMAN	ba08g08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823806 5'
11643	24240	37564	1.61	5.0E-72	BE208545.1	EST_HUMAN	ba08g08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823806 5'
12107	25358		2.82	6.0E-72	BE828846.1	EST_HUMAN	QV1-BT0632-280800-342-a10 BT0632 Homo sapiens cDNA
5378	18178	30868	0.82	4.0E-72	AF170025.1	NT	Homo sapiens zinc finger protein ZFP-95 (ZFP95) mRNA, alternatively spliced, complete cds
6462	19229	32230	0.89	4.0E-72	T87947.1	EST_HUMAN	yd83a01.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:115762 5' similar to SP:AA4282 A44282 RETROVIRUS-RELATED POLYPROTEIN - HUMAN ;
7309	19892	33069	2.03	4.0E-72		NT	Homo sapiens hec domain and RLD 2 (HERC2), mRNA
9684	22336	35531	1.3	4.0E-72	8923669	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
10282	22839	36152	0.48	4.0E-72	AW638230.1	EST_HUMAN	RC3-LT0023-200100-012-d11 LT0023 Homo sapiens cDNA
10282	22839	36153	0.48	4.0E-72	AW638230.1	EST_HUMAN	RC3-LT0023-200100-012-d11 LT0023 Homo sapiens cDNA
							q167c02.x1 Soares fetal liver spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849730 3' similar to TR:Q14498 Q14498 SPLICING FACTOR, [1] ;contains Alu repetitive element;contains element L1 repetitive element ;
10320	22987	36188	0.92	4.0E-72	AI248798.1	EST_HUMAN	sa23f08.s1 NCL CGAP GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11255	23917	37210	1.57	4.0E-72	AA465388.1	EST_HUMAN	sa23f08.s1 NCL CGAP GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11255	23917	37211	1.57	4.0E-72	AA465388.1	EST_HUMAN	sa23f08.s1 NCL CGAP GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11614	24114	37424	7.76	4.0E-72	H79421.1	EST_HUMAN	yu28a03.l1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:235084 5'
11637	24234	37555	1.75	4.0E-72	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
11637	24234	37556	1.75	4.0E-72	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
11680	24275	37597	2.16	4.0E-72	T81910.1	EST_HUMAN	yd28a03.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108949 3'
12453	24822	31025	8.92	4.0E-72	AJ277546.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
18	12846	25459	0.69	3.0E-72	5031978	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
883	13652		1.62	3.0E-72	AA723823.1	EST_HUMAN	af63a06.s1 Soares testis_NHT Homo sapiens cDNA clone 1310280 3'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1132	13888	26546	6.64	3.0E-72	U16308.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1132	13888	26547	6.64	3.0E-72	U16308.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1171	13925	26587	0.72	3.0E-72	U80228.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1171	13925	26588	0.72	3.0E-72	U80228.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1510	14256	26942	1.24	3.0E-72	BE242161.1	EST_HUMAN	TCAAP1E1252 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1252
3072	15838	28481	11.45	3.0E-72	AJ228043.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
3273	16034	28684	2.17	3.0E-72	8923548	NT	Homo sapiens hypothetical protein FLJ20585 (FLJ20585), mRNA
3803	16556	29186	2.69	3.0E-72	S77589.1	NT	TCR V delta 2-C alpha -T-cell receptor delta and C alpha fusion gene (alternatively spliced, splice junction)
4508	17243	28678	3.12	3.0E-72	11416196	NT	[human, precursor B-cell line REH, mRNA Partial, 211 nt]
4716	17447	30078	1.07	3.0E-72	AF167672.1	NT	Homo sapiens hypothetical protein (FLJ11127), mRNA
4716	17447	30080	1.07	3.0E-72	AF167672.1	NT	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
4862	17591	30216	0.95	3.0E-72	A165437.1	EST_HUMAN	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
5433	18232		1.27	3.0E-72	4759083	NT	w631a08.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2307254 3'
5891	18678	31621	2.1	3.0E-72	AF073367.1	NT	Homo sapiens semaphorin W (SEMAW) mRNA
5891	18678	31622	2.1	3.0E-72	AF073367.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6074	18953	31819	4.82	3.0E-72	AB028004.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6074	18953	31820	4.82	3.0E-72	AB028004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6516	19281	32284	3.63	3.0E-72	4826897	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
7485	20157	33249	2.15	3.0E-72	U80017.1	NT	Homo sapiens ribosomal protein L3-like (RPL3L) mRNA
8075	20769	33898	0.98	3.0E-72	5031892	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (smn) genes, complete cds
10331	22978	36188	1.2	3.0E-72	X98280.1	NT	Homo sapiens nuclear receptor subfamily 1, group H, member 3 (NR1H3), mRNA
5889	18656	31597	1.91	2.0E-72	11428671	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2), mRNA
8993	21063	34832	0.71	2.0E-72	BF308560.1	EST_HUMAN	601890419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'
8993	21063	34833	0.71	2.0E-72	BF308560.1	EST_HUMAN	601890419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'
10640	23531	36569	2.47	2.0E-72	AA789277.1	EST_HUMAN	428b09.e1 Soares, testis_NHT Homo sapiens cDNA clone 1391609 3' similar to gb:U02067 H.sapiens mRNA for 7SL RNA pseudogene (HUMAN);
12449	24819	31022	5.75	2.0E-72	AF182714.1	NT	Rattus norvegicus putative phosphate/phosphoenolpyruvate translocator mRNA, complete cds
2068	14900	27527	1.19	1.0E-72	AA846226.1	EST_HUMAN	a83c02.e1 Soares, parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1387395 3'

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5680	18473	31390	3.63	1.0E-72	7657676	NT	Homo sapiens vacuolar protein sorting 41 (yeast homolog) (VPS41), mRNA
6464	19231	32231	1.31	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6464	19231	32232	1.31	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6536	25063	32305	1.2	1.0E-72	AV751818.1	EST_HUMAN	AV751818 NPDP Homo sapiens cDNA clone NPDAIE11 5'
7537	20207	33304	3.7	1.0E-72	BE175434.1	EST_HUMAN	RC4-HIT0578-170300-012-g02 HT0578 Homo sapiens cDNA
7537	20207	33305	3.7	1.0E-72	BE175434.1	EST_HUMAN	RC4-HIT0578-170300-012-g02 HT0578 Homo sapiens cDNA
8491	22144	35324	10.25	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
8491	22144	35325	10.25	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
1444	14191	26876	1.35	9.0E-73	AW374968.1	EST_HUMAN	MRO-CT0063-071099-002-111 CT0063 Homo sapiens cDNA
10871	23551		15.11	9.0E-73	11424099	NT	Homo sapiens ribosomal protein L13a (RPL13A), mRNA
1015	13774	26434	2.29	8.0E-73	AW071755.1	EST_HUMAN	ws5508.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE2801098 3' similar to TR:Q59050
6493	18292	31190	1	8.0E-73	4503788	NT	Q59050 HYPOTHETICAL PROTEIN MJ1656 ;
6478	19245	32245	5.16	8.0E-73	11429469	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7694	20689	33817	2.87	8.0E-73	AF113129.1	NT	Homo sapiens lysosome homolog (LOC57151), mRNA
							Homo sapiens vacuolar ATPase isoform VA68 mRNA, complete cds
9253	21932	35105	6.25	8.0E-73	BE018900.1	EST_HUMAN	bb82a06.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE3030034 5' similar to gb:X04098_cds1 ACTIN, CYTOPLASMIC 2 (HUMAN); gb:M21495 Mouse cytoskeletal gamma-actin mRNA, complete cds (MOUSE);
9640	22292	35484	1.92	8.0E-73	11528037	NT	Homo sapiens Interleukin 12 receptor, beta 1 (IL12RB1), mRNA
9640	22292	35485	1.92	8.0E-73	11528037	NT	Homo sapiens Interleukin 12 receptor, beta 1 (IL12RB1), mRNA
10507	23153	36379	0.45	8.0E-73	4507628	NT	Homo sapiens transition protein 1 (during histone to protamine replacement) (TNP1) mRNA
11673	24172	37498	1.28	8.0E-73	11418788	NT	Homo sapiens DEAD-box protein (HAGE), mRNA
12508	24859	31012	3.31	8.0E-73	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
1112	13869	26528	0.99	7.0E-73	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3295	16056	28705	1.18	7.0E-73	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
4891	17618		1.35	7.0E-73	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
154	12969		3.07	6.0E-73	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
7072	19763	32827	3.48	6.0E-73	BE186574.1	EST_HUMAN	QV0-HIT0494-020300-137-403 HT0494 Homo sapiens cDNA
5173	17882	30497	2.2	4.0E-73	11422159	NT	Homo sapiens HELG protein (FAM441), mRNA
1318	14067	26741	2.77	3.0E-73	AW843789.1	EST_HUMAN	CNO-CNO044-260100-164-08 CNO044 Homo sapiens cDNA
6598	19391	32374	0.71	3.0E-73	AA196403.1	EST_HUMAN	zn95a04.a1 Striatum fetal retina 837202 Homo sapiens cDNA clone IMAGE585660 3' similar to
8556	21348	34492	0.65	3.0E-73	AV729428.1	EST_HUMAN	gb:Z23084_cds1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G (HUMAN);
8556	21348	34493	0.65	3.0E-73	AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAAF071 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11611	24209		1.51	3.0E-73	AI004040.1	EST_HUMAN	cut11d02x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1625955 3'
12734	25003		1.5	3.0E-73	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
12738	25005		1.54	3.0E-73	AW888081.1	EST_HUMAN	RC3-NN0068-270400-011-c04 NN0068 Homo sapiens cDNA
831	13601	26271	1.43	2.0E-73	AF139887.1	NT	Homo sapiens BASS1 (BASS1) mRNA, partial cds
1839	14674		1.78	2.0E-73	AW888081.1	EST_HUMAN	RC3-NN0068-270400-011-c04 NN0068 Homo sapiens cDNA
2288	15021		1.3	2.0E-73	U01317.1	NT	Human beta globin region on chromosome 11
3177	15940	28550	3.98	2.0E-73	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3538	16284	28943	0.91	2.0E-73	7688539	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
3538	16284	28944	0.91	2.0E-73	7688539	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
4401	17138		1.03	2.0E-73	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
6344	19114	32102	0.89	2.0E-73	AF086824.1	NT	Mus musculus rhoG-interacting citron kinase (Crik) mRNA, complete cds
6344	19114	32103	0.89	2.0E-73	AF086824.1	NT	Mus musculus rhoG-interacting citron kinase (Crik) mRNA, complete cds
6389	19158	32159	6.27	2.0E-73	AB046811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
6600	19363	32378	1.27	2.0E-73	11431471	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
6600	19363	32377	1.27	2.0E-73	11431471	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
7699	20362	33478	0.69	2.0E-73	M94048.1	NT	Human peripheral myelin protein 22 mRNA, complete cds
7701	20364	33478	0.73	2.0E-73	AB037750.1	NT	Homo sapiens mRNA for KIAA1329 protein, partial cds
9432	22110	35284	0.62	2.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
9432	22110	35285	0.52	2.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
10322	22869	36189	1.21	2.0E-73	4504168	NT	Homo sapiens glutathione synthetase (GSS) mRNA
10394	23040	36257	1.31	2.0E-73	11486880	NT	Homo sapiens supervillin (SVIL), transcript variant 1, mRNA
10394	23040	36258	1.31	2.0E-73	11486880	NT	Homo sapiens supervillin (SVIL), transcript variant 1, mRNA
10887	23662	36917	3.37	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
10887	23662	36918	3.37	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
11020	23692	36955	1.82	2.0E-73	AB028982.1	NT	Homo sapiens mRNA for KIAA1059 protein, partial cds
12293	14674		1.83	2.0E-73	AW888081.1	EST_HUMAN	RC3-NN0068-270400-011-c04 NN0068 Homo sapiens cDNA
1776	14518	27221	1.71	1.0E-73	AU121585.1	EST_HUMAN	AU121585 MAMMA1 Homo sapiens cDNA clone MAMMA1000460 5'
2488	15205	27948	1.12	1.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
6266	18039	32015	1.07	1.0E-73	BE151283.1	EST_HUMAN	CM1-HT0282-11159-042-h10 HT0282 Homo sapiens cDNA
							cg61607.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1839637 5' similar to contains element MER22 repetitive element
9399	22061	35230	1.37	1.0E-73	A147427.1	EST_HUMAN	601276071F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3617105 5'
11428	23195	36426	2.95	1.0E-73	BE385477.1	EST_HUMAN	

Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
723	13497	26150	1.06	8.0E-74	4557426	NT	Homo sapiens CD39-like 4 (CD39L4) mRNA
5824	18613	31544	2.2	8.0E-74	S83194.1	NT	Ce2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3429 nt]
5824	18613	31545	2.2	8.0E-74	S83194.1	NT	Ce2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3429 nt]
10791	23474		1.96	8.0E-74	N52239.1	EST_HUMAN	y46g10.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:245828 3'
1942	14677	27390	2.59	7.0E-74	AJ001699.1	NT	Homo sapiens NKG2D gene, exon 10
3322	16082	28732	1.08	7.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9142	21873	35038	2.83	7.0E-74	BE967492.1	EST_HUMAN	601649284F1 NIH_MGC 73 Homo sapiens cDNA clone IMAGE:3932997 5'
12605	24858	31011	5.51	7.0E-74	BE268305.1	EST_HUMAN	601191927F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3535855 5'
1100	13858	26518	2.4	6.0E-74	AF106907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
2314	15039	27778	11.78	6.0E-74	BE398260.1	EST_HUMAN	601283621F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3605453 5'
2314	15039	27778	11.78	6.0E-74	BE398260.1	EST_HUMAN	601283621F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3605453 5'
2867	15634	28279	1.32	6.0E-74	AW014039.1	EST_HUMAN	U1H-B10-ash-h-03-0-U1.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'
2867	15634	28280	1.32	6.0E-74	AW014039.1	EST_HUMAN	U1H-B10-ash-h-03-0-U1.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'
3700	16453	28062	1.34	6.0E-74	BE048848.1	EST_HUMAN	tr54e11.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:313232 3'
3700	16453	28063	1.34	6.0E-74	BE048848.1	EST_HUMAN	tr54e11.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:313232 3'
6281	18098	30744	3.02	6.0E-74	11056013	NT	Homo sapiens actin filament associated protein (AFAP), mRNA
885	13654	28322	7.33	5.0E-74	AW020866.1	EST_HUMAN	clT7c08.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2469704 5'
2706	15413		2.62	6.0E-74	AW382758.1	EST_HUMAN	PMO-CT0289-271099-001-h07 CT0289 Homo sapiens cDNA
6322	18126	30784	1.96	5.0E-74	11425417	NT	Homo sapiens phosphatidylinositol glycan, class L (PIGL), mRNA
5703	18497	31419	12.98	5.0E-74	X89870.1	NT	H. sapiens mRNA for TPGR16 protein
5748	18540	31462	7.41	6.0E-74	4507866	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
5819	18608	31536	1.94	5.0E-74	11431471	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
5819	18608	31537	1.94	5.0E-74	11431471	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
6795	19539	32567	5.98	5.0E-74	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7569	18539	32567	0.6	5.0E-74	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7936	20631	33758	2.78	5.0E-74	11345483	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
10838	23328	36566	2.56	5.0E-74	Y09420.1	NT	H. sapiens mRNA for HIP-1
10838	23328	36566	2.56	5.0E-74	Y09420.1	NT	H. sapiens mRNA for HIP-1
10757	23442	36887	2.69	5.0E-74	5729786	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
273	13080	25723	1.79	4.0E-74	D67875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
832	13602	26272	5.15	4.0E-74	AB028842.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1955	14680	27403	2.02	4.0E-74	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
1955	14680	27404	2.02	4.0E-74	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
2065	14797	27523	2.75	4.0E-74	4506182	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2065	14797	27524	2.75	4.0E-74	4506182	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2128	14859	27589	1.88	4.0E-74	AB032394.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2427	15148	27882	27.23	4.0E-74	AJ006978.1	NT	Homo sapiens PLP gene
3088	15853	28495	5.2	4.0E-74	AJ006978.1	NT	Homo sapiens PLP gene
3518	16274	28928	0.82	4.0E-74	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4041	16768	29414	1.03	4.0E-74	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
4520	17255	29888	2.23	4.0E-74	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4573	17308	29937	0.88	4.0E-74	Z17227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
5015	17736	30343	0.98	4.0E-74	4504326	NT	Homo sapiens hydroxycyl-Coenzyme A dehydrogenase/3-ketacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
5015	17738	30344	0.98	4.0E-74	4504326	NT	Homo sapiens hydroxycyl-Coenzyme A dehydrogenase/3-ketacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
8448	21140	34309	8.45	3.0E-74	AA300378.1	EST_HUMAN	EST13131 Thymus tumor III Homo sapiens cDNA 5' end similar to similar to ribosomal protein L37
8473	21165	34309	0.79	3.0E-74	8966912	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
9272	22028	35188	2.89	3.0E-74	M78984.1	EST_HUMAN	EST01132 Subtracted Hippocampus, Striatum (cat. #836205) Homo sapiens cDNA clone HHC9P91
10237	22885	36089	2.68	3.0E-74	AA601493.1	EST_HUMAN	not17g05.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100884 3'
938	13705	26370	175.01	2.0E-74	7669491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
938	13705	26371	175.01	2.0E-74	7669491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
1162	13807	26570	1.11	2.0E-74	AF020092.1	NT	Human endogenous retrovirus HERV-K-T47D
1222	13972	26844	1.36	2.0E-74	AI850528.1	EST_HUMAN	w61607.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG85 HUMAN Q08379 GOLGIN-95 ; contains element MER22 repetitive element ;
1590	14336	27024	3.79	2.0E-74	4885198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
1590	14336	27025	3.79	2.0E-74	4885198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
2809	15321	28083	0.94	2.0E-74	AI557280.1	EST_HUMAN	PT2.1_15_G11.7 tumor2 Homo sapiens cDNA 3'
4945	17672	30281	2.44	2.0E-74	AL355082.1	NT	Novel human gene mapping to chromosome 22
4945	17672	30282	2.44	2.0E-74	AL355082.1	NT	Novel human gene mapping to chromosome 22

Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4949	17676	30286	1.11	2.0E-74	J02983.1	NT	Human platelet glycoprotein IIb mRNA, 3' end
5709	25074	31424	2.5	2.0E-74	BE711134.1	EST_HUMAN	RC6-H10678-220500-011-C03 HT0678 Homo sapiens cDNA
5806	25077	31521	1.89	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
5808	25077	31522	1.89	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
5876	25077	31521	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
5878	25077	31522	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
7003	19695	32748	0.92	2.0E-74	BF030788.1	EST_HUMAN	601557524F1 NIH_MGC 58 Homo sapiens cDNA clone IMAGE:3827549 5'
7841	20536	33663	1.29	2.0E-74	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
9282	22036	35208	6.06	2.0E-74	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
12234	24687		3.95	2.0E-74	AA168181.1	EST_HUMAN	zp86a06.s1 Strategene muscle 937209 Homo sapiens cDNA clone IMAGE:628016 3'
52	12861	25509	1.89	1.0E-74	7657334	NT	Homo sapiens Missshapen/NIK-related kinase (MINK), mRNA
328	13129	25764	5.02	1.0E-74	AW818405.1	EST_HUMAN	QV4-ST0234-181199-037-05 ST0234 Homo sapiens cDNA
487	13272	25907	1.05	1.0E-74	8922828	NT	Homo sapiens hypothetical protein FLJ11028 (FLJ11028), mRNA
493	13277	25912	13.6	1.0E-74	X02344.1	NT	Homo sapiens beta 2 gene
587	13367	25995	1.47	1.0E-74	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
765	13538	26197	1.81	1.0E-74	AB020840.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
979	13744	28408	2.27	1.0E-74	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C046
2223	14851	27690	4.39	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
3136	15900	28545	3.55	1.0E-74	4759897	NT	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA
3368	16125	28782	0.9	1.0E-74	AA258549.1	EST_HUMAN	zr60c01.1 Soares_NIHMPu_S1 Homo sapiens cDNA clone IMAGE:667776 5'
3368	16125	28783	0.9	1.0E-74	AA258549.1	EST_HUMAN	zr60c01.1 Soares_NIHMPu_S1 Homo sapiens cDNA clone IMAGE:667776 5'
3901	16651	29292	0.86	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3901	16651	29293	0.86	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3950	16700	29338	4.81	1.0E-74	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C088
4042	16787	29415	1.15	1.0E-74	BE063080.1	EST_HUMAN	RC2-B10642-270300-018-f08 BT0642 Homo sapiens cDNA
6805	19388	32380	1.88	1.0E-74	M89914.1	NT	Human neurofibronin (NF1) gene, complete cds
7526	20197	33201	1.15	1.0E-74	11417977	NT	Homo sapiens KIAA0852 protein (KIAA0852), mRNA
7655	20650	33773	1.13	1.0E-74	BE548105.1	EST_HUMAN	601070088F1 NIH_MGC 12 Homo sapiens cDNA clone IMAGE:3456280 5'
7955	20650	33774	1.13	1.0E-74	BE548105.1	EST_HUMAN	601070088F1 NIH_MGC 12 Homo sapiens cDNA clone IMAGE:3456280 5'
8704	21396	34543	4.92	1.0E-74	AF214582.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
8733	21425	34571	0.66	1.0E-74	BF351951.1	EST_HUMAN	MRO-HT0559-230500-021-a03 HT0559 Homo sapiens cDNA
10140	22788	36001	0.55	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10140	22788	36002	0.55	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10380	23028	36241	1.98	1.0E-74	11420549	NT	Homo sapiens hypothetical protein FLJ10783 (FLJ10783), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11885	24458	37800	2.92	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
11885	24513		5.01	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12103	14851	27680	1.58	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
12567	24897		1.53	1.0E-74	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2650	15360		3.88	8.0E-75	AF176228.1	NT	Homo sapiens DNA cytosine-5 methyltransferase 3B (DNMT3B), mRNA, complete cds
12254	24700		1.86	8.0E-75	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2319	15044	27781	1.47	6.0E-75	AB17415.1	EST_HUMAN	Wk38a08.x1 NCI CGAP_P122 Homo sapiens cDNA clone IMAGE:2417854 3' similar to gb:M14123_cd94
7688	20352	33468	0.61	5.0E-75	AA573446.1	EST_HUMAN	RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN);
7688	20352	33467	0.61	5.0E-75	AA573446.1	EST_HUMAN	nk98d03.s1 NCI CGAP_C03 Homo sapiens cDNA clone IMAGE:1028933 3'
8808	21498	34643	0.94	5.0E-75	BE272325.1	EST_HUMAN	nk98d03.s1 NCI CGAP_C03 Homo sapiens cDNA clone IMAGE:1028933 3'
9015	21705	34855	0.6	5.0E-75	AA132611.1	EST_HUMAN	6011128089F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:2889865 5'
9093	21782	34946	0.78	5.0E-75	BE561655.1	EST_HUMAN	zot17c08.t1 Strategene colon (8637204) Homo sapiens cDNA clone IMAGE:587174 5'
9093	21782	34947	0.78	5.0E-75	BE561655.1	EST_HUMAN	601346809F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'
9273	22027	35187	1.53	5.0E-75	BF890254.1	EST_HUMAN	601346809F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'
10134	22782	35693	2.39	5.0E-75	AB38623.1	EST_HUMAN	602186816T1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4288738 3'
110	12831	25568	2.16	4.0E-75	BE081933.1	EST_HUMAN	h31c12.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2242380 3' similar to TR:P87361 P87361
446	13232		1.02	4.0E-75	N36757.1	EST_HUMAN	HYPOTHETICAL 20.1 KD PROTEIN;
1759	14501	27202	1.5	4.0E-75	AW897230.1	EST_HUMAN	QV1-BT0632-210200-079-g02 BT0632 Homo sapiens cDNA
2853	15621	28286	4.89	4.0E-75	BE409464.1	EST_HUMAN	y80h08.t1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:268055 5'
3482	18248	28902	0.94	4.0E-75		NT	CM0-NN0057-150400-335-e11 NN0057 Homo sapiens cDNA
5442	18241	31128	0.56	4.0E-75	11417946	NT	601303860F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638344 5'
5442	18241	31129	0.56	4.0E-75	11417946	NT	Homo sapiens hypothetical protein FLJ10747 (FLJ10747), mRNA
6176	18953	31828	5.78	4.0E-75	5578457	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6861	19421	32436	2.28	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6861	19421	32437	2.28	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6861	19421	32437	2.28	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
10584	23279	36517	18.12	4.0E-75	7689505	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
882	13747	26409	3.72	3.0E-75	AF157623.1	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
883	13747	26409	2.41	3.0E-75	AF157623.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1828	14567	27279	2.78	3.0E-75	AB011153.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
2106	14838	27570	1.11	3.0E-75	4507334	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
2422	15143	27876	5.86	3.0E-75	4759153	NT	Homo sapiens synapjanin 1 (SYNJ1), mRNA
							Homo sapiens synapjanin-associated protein, 28kD (SNAP29) mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3021	15787	28434	0.97	3.0E-75	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3184	15947	28597	1.32	3.0E-75	AB011153.1	NT	Homo sapiens mRNA for KIAA0681 protein, partial cds
3345	16104	28757	0.75	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
3345	16104	28758	0.76	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4147	16889	28821	3.27	3.0E-75	D87675.1	NT	Human calcium-dependent phospholipid-binding protein, complete cds
4404	17141	29769	0.73	3.0E-75	7682421	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
5171	17980	30493	0.83	3.0E-75	11420956	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
5171	17980	30494	0.83	3.0E-75	11420956	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
6671	19588	32623	1.68	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
6671	19588	32624	1.68	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
7035	19727	32783	4.58	3.0E-75	7682209	NT	Homo sapiens KIAA0823 gene product (KIAA0823), mRNA
7035	19727	32784	4.58	3.0E-75	7682209	NT	Homo sapiens KIAA0823 gene product (KIAA0823), mRNA
7622	20193	33284	2.52	3.0E-75	4885632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
7622	20193	33285	2.52	3.0E-75	4885632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
8883	21574	34717	1.21	3.0E-75	11420804	NT	Homo sapiens snail 1 (drosophila homolog), zinc finger protein (SNAIL), mRNA
9577	22230	35414	0.77	3.0E-75	11420222	NT	Homo sapiens Drosophila Katch like protein (DKELCHL), mRNA
10440	23088	36314	2.28	3.0E-75	11438430	NT	Homo sapiens synuclein, alpha (non A4 component of amyloid precursor) (SNCA), mRNA
5587	18384		1.41	2.0E-75	AV734680.1	EST_HUMAN	AV734680 cda Homo sapiens cDNA clone cDABED02 5'
8848	21340	34484	2.45	2.0E-75	A1311783.1	EST_HUMAN	q91602.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1915888 3' similar to TR:Q66386 Q66386 POL/ENV GENE;
2076	14808	27539	1.12	1.0E-75	4506328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
2076	14808	27540	1.12	1.0E-75	4506328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
2301	15026	27762	6.68	1.0E-75	AW168135.1	EST_HUMAN	cg60402.x1 NCI_CGAP_UH4 Homo sapiens cDNA clone IMAGE:2632707 3' similar to contains PTR7.1
2947	15713	28366	3.27	1.0E-75	X52221.1	NT	PTR7 repetitive element;
8313	21008		4.27	1.0E-75	AA399270.1	EST_HUMAN	H. sapiens ERCC2 gene, exons 1 & 2 (partial)
9328	21985	35167	3.75	1.0E-75	BF313845.1	EST_HUMAN	z157h03.s1 Soares_bests_NHT Homo sapiens cDNA clone IMAGE:728485 3' similar to gb:M13932 40S RIBOSOMAL PROTEIN S17 (HUMAN);
9328	21985	35168	3.75	1.0E-75	BF313845.1	EST_HUMAN	601900294F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129678 5'
10797	23480		10.83	1.0E-75	AA684377.1	EST_HUMAN	601900294F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129678 5'
11033	23704	36972	2.58	1.0E-75	AF223391.1	NT	ac77h08.s1 Strategene lung (#837210) Homo sapiens cDNA clone IMAGE:868598 3'
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced

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11860	24444	37785	1.38	1.0E-76	AA417112.1	EST_HUMAN	zu04b03.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:730829 5'
12152	17812	30598	1.64	1.0E-75	BE894192.1	EST_HUMAN	601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303 5'
43	12872	25493	1.24	9.0E-76	AI652848.1	EST_HUMAN	w630b10.x1 NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR:O76235 O75235 TRAP1 ;
43	12872	25494	1.24	9.0E-76	AI652848.1	EST_HUMAN	w630b10.x1 NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR:O75235 O75235 TRAP1 ;
9801	22452	35654	43.62	9.0E-76	M12837.1	NT	Human ferritin Heavy subunit mRNA, complete cds
917	13684	26347	1.06	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HIF1) mRNA
917	13684	26348	1.06	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HIF1) mRNA
2910	15676	28325	1	8.0E-76	7706724	NT	Homo sapiens mediator (Sur2), mRNA
6079	18658	31825	6.36	8.0E-76	11421442	NT	Homo sapiens LIM domain kinase 1 (LIMK1), mRNA
7388	20067	33145	1.26	8.0E-76	11435215	NT	Homo sapiens serine/threonine kinase 2 (STK2), mRNA
7465	20139	33231	0.86	8.0E-76	11418212	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
8195	20889	34027	0.67	8.0E-76	11416891	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
8995	21885	34835	0.55	8.0E-76	AB046764.1	NT	Homo sapiens mRNA for KIAA1544 protein, partial cds
10277	22925	36137	1.35	8.0E-76	M13792.1	NT	Human adenosine deaminase (ADA) gene, complete cds
10584	23260	36497	4.81	8.0E-76	10442821	NT	Homo sapiens baculoviral IAP repeat-containing 6 (BIRC6), mRNA
12491	24949		2	8.0E-76	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
739	13531	26191	1.41	7.0E-76	5016032	NT	Homo sapiens dihydrodipicolinate dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex) (DLD) mRNA
3298	16049	28697	2.97	7.0E-76	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
3294	16055	28704	7.55	7.0E-76	4505052	NT	Homo sapiens lymphocyte antigen 75 (LY75) mRNA, and translated products
3330	16080	28743	0.93	7.0E-76	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
4338	17077	29705	4.73	7.0E-76	4507184	NT	Homo sapiens septin-like reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) mRNA
4338	17077	29708	4.73	7.0E-76	4507184	NT	Homo sapiens septin-like reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) mRNA
1212	13962		31.63	6.0E-76	BE396253.1	EST_HUMAN	601312019F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658757 5'
11442	23209	38440	3.76	8.0E-76	BE273201.1	EST_HUMAN	601142263F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3608029 5'
1936	14671	27385	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1936	14671	27388	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1936	14671	27387	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
5188	17996	30512	1.26	4.0E-76	BE783412.1	EST_HUMAN	601471725F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874470 5'
9923	22571	35768	6.42	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (TFujiiwara) Homo sapiens cDNA clone GEN-178G01 5'

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9023	22571	35768	6.42	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (TFujiiwara) Homo sapiens cDNA clone GEN-178G01 5'
615	13393	26026	3.2	3.0E-76	BF516262.1	EST_HUMAN	UI-H-BW1-enz-b-04-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
615	13393	26027	3.2	3.0E-76	BF516262.1	EST_HUMAN	UI-H-BW1-enz-b-04-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
1694	14340	27029	3.26	3.0E-76	4503478	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
1694	14340	27030	3.26	3.0E-76	4503478	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
3422	16179	28828	4.96	3.0E-76	BF375689.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
3422	16179	28828	4.96	3.0E-76	BF375689.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
4058	16803	29434	1.07	3.0E-76	BE348693.1	EST_HUMAN	h67H12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3151823 3' similar to TR:O94888 O94888 KIAA0782 PROTEIN. ;
5168	17891	37796	2.07	3.0E-76	Z41314.1	EST_HUMAN	HSC2QD042 normalized Infant brain cDNA Homo sapiens cDNA clone c-zqd04 3'
5946	18441	31354	1.09	3.0E-76	AA160811.1	EST_HUMAN	zo73c07.r1 Stragene pancreas (#937208) Homo sapiens cDNA clone IMAGE:562524 5' similar to gbL32876 MIXED LINEAGE KINASE 1 (HUMAN);
6275	19048	32025	9.57	3.0E-76	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
8050	20744	33877	0.88	3.0E-76	N42871.1	EST_HUMAN	y20g10.r1 Soares melanocyte 2NblHM Homo sapiens cDNA clone IMAGE:271842 5'
9616	22289	35456	3.34	3.0E-76	AW289353.1	EST_HUMAN	xs49h01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2773009 3'
9641	22283	35498	0.99	3.0E-76	AA442309.1	EST_HUMAN	zv54d11.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:767461 5'
9841	22293	35487	0.99	3.0E-76	AA442309.1	EST_HUMAN	zv54d11.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:767461 5'
11876	25191	30812	1.93	3.0E-76	AW967984.1	EST_HUMAN	EST380059 IMAGE resequences, MAGJ Homo sapiens cDNA
11978	25398	30602	4.86	3.0E-76	AW956455.1	EST_HUMAN	EST388525 IMAGE resequences, MAGD Homo sapiens cDNA
275	13082	25726	1.69	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
333	13134	25768	4.39	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
333	13134	25768	4.39	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
448	13234		1.19	2.0E-76	4557682	NT	Homo sapiens immunoglobulin (CD79A) binding protein 1 (IGBP1) mRNA
678	13366	25984	1.08	2.0E-76	4503944	NT	Homo sapiens glucagon (GCG) mRNA
1008	13798	28430	1	2.0E-76	4758063	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
1526	14273	26980	1.91	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
1526	14273	26981	1.91	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
1921	14658	27368	0.91	2.0E-76	AA253954.1	EST_HUMAN	zs60h11.s1 Stragene scitcho brain S11 Homo sapiens cDNA clone IMAGE:701825 3'
2846	15614	28261	3.34	2.0E-76	P23268	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN F5
							zv64e02.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:780988 3' similar to SW:ITB5_HUMAN
3291	16052	28701	2.06	2.0E-76	AA445892.1	EST_HUMAN	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR. ;
3291	16052	28702	2.06	2.0E-76	AA445892.1	EST_HUMAN	zv64e02.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:780988 3' similar to SW:ITB5_HUMAN

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3469	16225	28879	0.97	2.0E-78	A821149.1	EST_HUMAN	ec83b02.y6 Stragene lung (#837210) Homo sapiens cDNA clone IMAGE:889163 5' similar to TR:O14591
4114	13082	25725	1.23	2.0E-78	D84285.1	NT	O14591 SIMILARITY TO P22059 ;
4895	17822	30240	6.21	2.0E-78	AW879618.1	EST_HUMAN	Human mRNA for possible protein TPRDII, complete cds
5055	17774	30390	1.49	2.0E-78	5031660	NT	QV3-OT0028-220300-132-b11 OT0028 Homo sapiens cDNA
5228	18033		1.6	2.0E-78	AF127845.1	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
5531	18328	31233	6.47	2.0E-78	AB028004.1	NT	Gorilla gorilla olfactory receptor (GGO18) gene, partial cds
7334	20016	33064	0.75	2.0E-78	11426908	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
7560	20230	33333	1.91	2.0E-78	11427410	NT	Homo sapiens A kinase (PRKA) anchor protein 10 (AKAP10), mRNA
10182	22830	36045	3.53	2.0E-78	11437211	NT	Homo sapiens TPCR88 protein (HSTPCR88P), mRNA
10839	23521	36763	3.58	2.0E-78	7549807	NT	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC83150), mRNA
4285	17008	28638	2.38	1.0E-78	D63874.1	NT	Homo sapiens HIRA interacting protein 4 (dnaj-like) (HIRIP4), mRNA
4285	17008	28639	2.38	1.0E-78	D63874.1	NT	Human mRNA for HMG-1, complete cds
5362	18164	30849	6.12	1.0E-78	BE796537.1	EST_HUMAN	Human mRNA for HMG-1, complete cds
6150	18927		0.72	1.0E-78	AA333207.1	EST_HUMAN	601689896F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
6825	19488	32508	4.53	9.0E-77	BE889525.1	EST_HUMAN	EST37301 Embryo, 8 week I Homo sapiens cDNA 5' end
12844	24041		1.4	9.0E-77	BE410354.1	EST_HUMAN	601512435F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913737 5'
182	12894	25633	0.92	8.0E-77	R83144.1	EST_HUMAN	601302333F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636753 5'
4488	17221	28649	1.09	8.0E-77	BF205181.1	EST_HUMAN	yp11n02.l1 Soares breast 3NdbBst Homo sapiens cDNA clone IMAGE:187155 5' similar to
5366	18168	30854	1.74	8.0E-77		NT	SP-ANKB_HUMAN Q01484 ANKYRIN, BRAIN VARIANT 1 ;
11360	24048	37351	1.91	8.0E-77	AA019770.1	EST_HUMAN	601868926F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4109503 5'
11360	24048	37352	1.91	8.0E-77	AA019770.1	EST_HUMAN	Homo sapiens proteasome (prosome, macropath) 26S subunit, non-ATPase, 7 (Mox34 homolog) (PSMD7) mRNA
12820	24925	31008	4.02	8.0E-77	R00245.1	EST_HUMAN	
1922	14559	27370	2.4	7.0E-77	AA625755.1	EST_HUMAN	z662802.r1 Soares retina N2b-4HR Homo sapiens cDNA clone IMAGE:363578 5'
2411	15132	27868	2.52	7.0E-77	4505944	NT	z662802.r1 Soares retina N2b-4HR Homo sapiens cDNA clone IMAGE:363578 5'
2411	15132	27869	2.52	7.0E-77	4505944	NT	y68904.s1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains
258	13084	25703	8.53	8.0E-77	4504800	NT	MER10 repetitive element ;
1534	14281	26869	3.22	8.0E-77	A1204068.1	EST_HUMAN	z161901.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:746392 3'
1214	13884	26831	2.11	5.0E-77	AF041015.1	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25kD) (POLR2E) mRNA
1339	14087	26763	1.77	5.0E-77	4557250	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25kD) (POLR2E) mRNA
2691	16400	28139	0.98	5.0E-77	AF162668.1	NT	Homo sapiens Interferon (alpha, beta and omega) receptor 2 (IFNAR2) mRNA
							q67n12.x1 Soares fetal lung Nbl-L19W Homo sapiens cDNA clone IMAGE:1745063 3'
							7 Homo sapiens glucokinase (GCK) gene, exon 2
							Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA
							Homo sapiens tussled-like kinase 1 (TLK1) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2767	15472	28214	0.89	5.0E-77	4503160	NT	Homo sapiens cullin 1 (CUL1) mRNA
3512	16288	28923	0.89	5.0E-77	8394518	NT	Homo sapiens ubiquitin specific protease 18 (USP18) mRNA
4655	17389	30022	2.47	5.0E-77	5031680	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3) mRNA
4655	17389	30023	2.47	5.0E-77	5031680	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3) mRNA
4884	17611	30231	2.96	5.0E-77	ALD43953.1	EST_HUMAN	DKFZp434G1728.1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434G1728.5
6686	19603	32842	0.57	5.0E-77	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
7730	20393	33508	0.69	5.0E-77	8923319	NT	Homo sapiens hypothetical protein FLJ20343 (FLJ20343) mRNA
8268	20960	34089	1.26	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyl-Coenzyme A hydrolase (HIBCH) mRNA
8268	20960	34100	1.28	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyl-Coenzyme A hydrolase (HIBCH) mRNA
9469	22078	35249	2.48	5.0E-77	11421828	NT	Homo sapiens sorting nexin 5 (SNX5) mRNA
9469	22078	35250	2.48	5.0E-77	11421828	NT	Homo sapiens sorting nexin 5 (SNX5) mRNA
10388	23034	36249	1.22	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
10388	23034	36250	1.22	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
11794	24384	37716	3.12	5.0E-77	U37194.1	NT	Human UNC-104- and KIF1A-related protein mRNA, partial cds
11794	24384	37717	3.12	5.0E-77	U37194.1	NT	Human UNC-104- and KIF1A-related protein mRNA, partial cds
1965	14701	27417	1.09	3.0E-77	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
1965	14701	27418	1.09	3.0E-77	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
10188	22836	36050	0.79	3.0E-77	H65167.1	EST_HUMAN	yu84g01.1 Weizmann Officary Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 -;
10188	22836	36051	0.79	3.0E-77	H65167.1	EST_HUMAN	yu84g01.1 Weizmann Officary Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 -;
10785	23468	36709	3.98	3.0E-77	BF356917.1	EST_HUMAN	PM3-MT0078-080800-005-g03 MT0078 Homo sapiens cDNA
1330	14079	26763	1.4	2.0E-77	AV784617.1	EST_HUMAN	AV784617 MDS Homo sapiens cDNA clone MDSBT10 5'
1412	14160	26844	1.91	2.0E-77	AW897712.1	EST_HUMAN	RC3-BN0053-170200-011-h01 BN0053 Homo sapiens cDNA
2084	14816	27548	1.13	2.0E-77	L41825.1	NT	Homo sapiens CYP17 gene, 5' and
2096	14827	27560	6.23	2.0E-77	7708315	NT	Homo sapiens CGI-78 protein (LOC51634) mRNA
2802	15589	28053	1.92	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2802	15589	28054	1.92	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
4012	16758	28386	1.96	2.0E-77	BE044316.1	EST_HUMAN	ho43b05.1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3040113 3' similar to SW:GAG2 HUMAN P10284 RETROVIRUS-RELATED GAG POLYPROTEIN ;
4379	17116	29749	0.74	2.0E-77	A613519.1	EST_HUMAN	tw22g02.x1 NCL_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR-O65245
4379	17116	29750	0.74	2.0E-77	A613519.1	EST_HUMAN	tw22g02.x1 NCL_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR-O65245

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4557	17292		0.96	2.0E-77	4504068	NT	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA
4717	17449	30082	1.59	2.0E-77	AA633025.1	EST_HUMAN	ns66g12.s1 NCI_CGAP_P12 Homo sapiens cDNA clone IMAGE:1188838 similar to SW-RL28_HUMAN
5865	18552	31593	1.9	2.0E-77	BE288940.1	EST_HUMAN	P47914 60S RIBOSOMAL PROTEIN L29. [1] contains element MSR1 repetitive element;
6080	18859	31826	1.73	2.0E-77	BE787143.1	EST_HUMAN	601119852F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029438 5'
7074	19765	32829	15.45	2.0E-77	AB833003.1	EST_HUMAN	601476802F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3878505 5'
8427	21120	34269	0.82	2.0E-77	A1962707.1	EST_HUMAN	at74a09.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2377720 3' similar to TR-Q13311
9428	22108	35280	5.05	2.0E-77	U50321.1	NT	Q13311 TAX1-BINDING PROTEIN TXBP161. [1];
9428	22108	35281	5.05	2.0E-77	U50321.1	NT	qy70c09.x1 NCI_CGAP_Bm26 Homo sapiens cDNA clone IMAGE:2017360 3' similar to WP:F28D11.1
9895	22545	35738	0.47	2.0E-77	BF310349.1	EST_HUMAN	CE05785 LOW DENSITY LIPID RECEPTOR-RELATED PROTEIN;
9895	22545	35739	0.47	2.0E-77	BF310349.1	EST_HUMAN	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
42	12870	25489	1.03	1.0E-77	AB033102.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
42	12870	25490	1.03	1.0E-77	AB033102.1	NT	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
268	13074	25714	7.19	1.0E-77	4502168	NT	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
268	13074	25715	7.19	1.0E-77	4502168	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
855	15554	26298	17.31	1.0E-77	4502168	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
855	15554	26297	17.31	1.0E-77	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1912	14949	27360	0.9	1.0E-77	AW058119.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
2445	15164	27902	1.32	1.0E-77	AB029024.1	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3040	16806	28451	1.72	1.0E-77	4503300	NT	Homo sapiens mRNA for KIAA1101 protein, complete cds
4320	17059	29684	3.37	1.0E-77	7706239	NT	Homo sapiens 2,4-dienoyl CoA reductase 1, mitochondrial (DECR1), mRNA
4488	17223	29851	18.41	1.0E-77	AJ229041.1	NT	Homo sapiens CG1-60 protein (LOC51628), mRNA
4803	17338	29967	2.29	1.0E-77	6552322	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
5010	17732	30337	1	1.0E-77	7681849	NT	Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1-exon4, mRNA
5010	17732	30338	1	1.0E-77	7681849	NT	Homo sapiens KIAA0005 gene product (KIAA0005), mRNA
5839	18627	31561	2.45	1.0E-77	AF086944.1	NT	Homo sapiens KIAA0005 gene product (KIAA0005), mRNA

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5839	18827	31562	2.45	1.0E-77	AF088944.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28
5956	18738	31697	1.4	1.0E-77	M25844.1	NT	Human von Willebrand factor gene, exon 20
6356	19128	32120	0.82	1.0E-77	4885182	NT	Homo sapiens diaphanous (Drosophila, homolog) 1 (DIAPH1), mRNA
6953	19436	32450	2.17	1.0E-77	5881412	NT	Homo sapiens elastin (supravalvular aortic stenosis, Williams-Beuren syndrome) (ELN), mRNA
7664	20234	33338	1.05	1.0E-77	11420159	NT	Homo sapiens cullin 1 (CUL1), mRNA
7663	20327	33437	0.89	1.0E-77	X04571.1	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
9166	21835	35000	0.62	1.0E-77	X94354.1	NT	H.sapiens DNA for Cone cGMP-PDE gene
9165	21835	35001	0.62	1.0E-77	X94354.1	NT	H.sapiens DNA for Cone cGMP-PDE gene
10421	23067	36298	3.1	1.0E-77	AB028396.1	NT	Homo sapiens hU-GlcAT-P mRNA for glucuronyltransferase, complete cds
10421	23067	36289	3.1	1.0E-77	AB028396.1	NT	Homo sapiens hU-GlcAT-P mRNA for glucuronyltransferase, complete cds
10449	23095	36326	2.55	9.0E-78	AW753302.1	EST_HUMAN	RC3-CT0284-280999-011-505 CT0254 Homo sapiens cDNA
6354	19124	32117	3.11	8.0E-78	AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-605 ET0023 Homo sapiens cDNA
6354	19124	32118	3.11	8.0E-78	AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-605 ET0023 Homo sapiens cDNA
84	12910	25549	1.87	6.0E-78	AU118789.1	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
84	12910	25549	1.87	6.0E-78	AU118789.1	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
6465	18232		2.54	6.0E-78	11432710	NT	Homo sapiens GDNF family receptor alpha 1 (GFR1), mRNA
212	13024	25663	0.72	5.0E-78	11422486	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
2567	15281	28019	5.53	5.0E-78	AW673424.1	EST_HUMAN	ba54h03.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800405 5' similar to WP:Y4886A.6
3380	16130	28797	3.81	5.0E-78	M55588.1	NT	CE22121 ; Human collagenase type IV (CLG4) gene, exon 6
5327	18130	30789	2.93	5.0E-78	AF038536.1	NT	Homo sapiens Best's macular dystrophy related protein mRNA, partial cds
5488	18287	31183	11.12	5.0E-78	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 88kD (TGFB1), mRNA
7054	19745	32808	2.23	5.0E-78	AW963120.1	EST_HUMAN	EST365190 IMAGE resequences, MAGB Homo sapiens cDNA
8981	21671	34821	6.79	5.0E-78	U60889.1	NT	Human lysosomal alpha-mannosidase (manB) gene, exon 7
8982	21672	34822	3.31	5.0E-78	BE960836.1	EST_HUMAN	601848051F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:3931887 5'
1115	13872	28531	1.07	4.0E-78	AL043314.2	EST_HUMAN	DKFZp434N0323_1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434N0323 5'
1508	14254	28940	1.78	4.0E-78	AL355841.1	NT	Novel human gene mapping to chromosome 22
1644	14390	27078	1.09	4.0E-78	AI885094.1	EST_HUMAN	w97b12.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2495615 3' similar to SW:WAP_PIG
2316	15041	27779	2.08	4.0E-78	AF107405.1	NT	O46855 WHEY ACIDIC PROTEIN PRECURSOR ;
4288	17027	28652	1.73	4.0E-78	7656878	NT	Homo sapiens pre-mRNA splicing factor (SFRS3) mRNA, complete cds
4722	17454	30088	2.61	4.0E-78	4505806	NT	Homo sapiens syncytin (LOC30816), mRNA
4722	17454	30088	2.61	4.0E-78	4505806	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
5681	18474	31391	1.41	4.0E-78	11420732	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
							Homo sapiens SFRS protein kinase 2 (SRPK2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7360	20069	33148	0.58	4.0E-78	4506736	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1), mRNA
8752	21444	34591	2.86	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230), mRNA, complete cds
8752	21444	34592	2.86	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230), mRNA, complete cds
8268	22022	35182	0.6	4.0E-78	11417251	NT	Homo sapiens X-ray repair complementing defective repair in Chinese hamster cells 4 (XRCC4), mRNA
10342	22889	36208	1.98	4.0E-78	11560151	NT	Homo sapiens hypofunctional C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10342	22889	36207	1.98	4.0E-78	11560151	NT	Homo sapiens hypofunctional C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
11398	24002	37305	5.18	4.0E-78	AF169148.1	NT	Homo sapiens s-CaBP1 (CABP1), mRNA, complete cds
11547	24146	37456	2.15	4.0E-78	X05844.1	NT	Human transforming growth factor-beta precursor gene exons 4-5 (and joined mature peptide)
12517	24866	31016	3.67	4.0E-78	AB011398.1	NT	Homo sapiens gene for AF-8, complete cds
157	12972	25810	1.39	3.0E-78	AF085901.1	NT	Homo sapiens eRF1 gene, complete cds
157	12972	25811	1.39	3.0E-78	AF085901.1	NT	Homo sapiens eRF1 gene, complete cds
3748	16499	29181	0.98	3.0E-78	AU140604.1	EST_HUMAN	AU140604 PLAC83 Homo sapiens cDNA clone PLAC83000373 5'
3788	16548	29181	0.72	3.0E-78	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
4084	16548	29181	0.96	3.0E-78	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
5094	17813	30430	0.93	3.0E-78	4506328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1), mRNA
10188	22834		5.14	3.0E-78	BE144758.1	EST_HUMAN	CMO-HT0180-041088-065-c07 HT0180 Homo sapiens cDNA
10902	23592	36832	1.97	3.0E-78	BE156318.1	EST_HUMAN	QV0-HT0367-150200-114-g09 HT0367 Homo sapiens cDNA
3119	15894		2.17	2.0E-78	U04489.1	NT	Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene, exon 20
3695	16743		1.87	2.0E-78	AA311872.1	EST_HUMAN	EST182583 Jurkat T-cells VI Homo sapiens cDNA 5' end
7367	20047	33128	1.54	2.0E-78	AW402306.1	EST_HUMAN	UHF-BKO-seq-g-10-Q-UJ.1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054139 5'
7367	20047	33127	1.54	2.0E-78	AW402306.1	EST_HUMAN	UHF-BKO-seq-g-10-Q-UJ.1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054139 5'
7631	20287	33405	3.89	2.0E-78	BF689800.1	EST_HUMAN	802186529F1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4288589 5'
7940	20635	33762	2.33	2.0E-78	AV714177.1	EST_HUMAN	AV714177 DCB Homo sapiens cDNA clone DCBAW F08 5'
8351	21044	34180	1.4	2.0E-78	AI557509.1	EST_HUMAN	P2.1_16_B07.r tumor2 Homo sapiens cDNA 3'
8351	21044	34181	1.4	2.0E-78	AI557509.1	EST_HUMAN	P2.1_16_B07.r tumor2 Homo sapiens cDNA 3'
11017	23689	36852	3.27	2.0E-78	AI197837.1	EST_HUMAN	q50H05.1 NC1 CGAP Brn25 Homo sapiens cDNA clone IMAGE:1859861 3' similar to WP.R90.1
11088	23738	37012	3.89	2.0E-78	N68951.1	EST_HUMAN	CE06325 PROTEIN KINASE ;
4123	16865	29491	3.07	1.0E-78	4507098	NT	z44812.1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:285823 3'
4123	16865	29492	3.07	1.0E-78	4507098	NT	Homo sapiens synaptosomal-associated protein, 25kD (SNAP25), mRNA
5222	18029	30655	2.63	1.0E-78	11417304	NT	Homo sapiens synaptosomal-associated protein, 25kD (SNAP25), mRNA
6857	17834	30570	0.76	1.0E-78	AV648689.1	EST_HUMAN	Homo sapiens GAP-like protein (LOC51308), mRNA
7736	20401	33517	0.55	1.0E-78	AU122163.1	EST_HUMAN	AV648689 GLC Homo sapiens cDNA clone GLCBM001 3'
							AU122163 MAMMA1 Homo sapiens cDNA clone MAMMA1001785 5'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8059	20753		3.28	1.0E-78	U52373.1	NT	Human serine/threonine kinase MNB (mrnb) mRNA, complete cds
12045	24565	31117	1.39	1.0E-78	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12477	25244	30718	1.55	1.0E-78	AI650918.1	EST_HUMAN	w201008.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2288815 3'
4650	17384	30016	4.05	9.0E-79	11625891	NT	Homo sapiens peptide YY (PYY), mRNA
4811	17542	30166	8.05	9.0E-79	BE000837.1	EST_HUMAN	RC2-BND074-090300-014-c12 BN0074 Homo sapiens cDNA
5346	18149	30829	16.87	9.0E-78	AB028070.1	NT	Homo sapiens mRNA for activator of S phase Kinase, complete cds
6248	19022	31994	2.38	9.0E-79	5454145	NT	Homo sapiens ubiquitin-conjugating enzyme E2E 3 (homologous to yeast UBC4f5) (UBE2E3) mRNA
7251	25108		0.99	9.0E-79	11424427	NT	Homo sapiens hypothetical protein FLJ20345 (FLJ20345), mRNA
7473	20146	33239	0.79	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
7473	20146	33240	0.79	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
8244	20838	34074	0.49	9.0E-79	11417280	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
8244	20938	34075	0.49	9.0E-79	11417280	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
8961	21652	34802	5.1	9.0E-79	JO2853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
8961	21652	34803	5.1	9.0E-79	JO2853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
8280	22034	35208	0.58	9.0E-79	DO7675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10263	22811	36121	0.82	9.0E-79	11438843	NT	Homo sapiens hypothetical protein FLJ20535 (FLJ20535), mRNA
10318	22865	36182	1.73	9.0E-79	AF062348.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
10318	22865	36183	1.73	9.0E-79	AF062348.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
11001	23674	36830	3.13	9.0E-79	AY008273.1	NT	Homo sapiens TRAF8-regulated IKK activator 1 beta Uev1A mRNA, complete cds
11497	24096	37410	3.55	9.0E-79	11423827	NT	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA
11497	24098	37411	3.55	9.0E-79	11423827	NT	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA
3725	18478	28115	0.91	8.0E-79	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11868	17910	30596	1.82	8.0E-79	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
3247	16009	28880	28.39	7.0E-79	BE619648.1	EST_HUMAN	60147276T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875557 3'
11889	24468		4.32	6.0E-79	AA099829.1	EST_HUMAN	294404.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:482538 3' similar to
11478	24079	37390	2.52	5.0E-79	AL163282.2	NT	TRQ15408 Q15408 NEUTRAL PROTEASE LARGE SUBUNIT ;
3173	15936		1.49	4.0E-79	8622325	NT	Homo sapiens chromosome 21 segment HS21C082
305	13109	25749	1.28	3.0E-79	AF114488.1	NT	Homo sapiens hypothetical protein FLJ10283 (FLJ10283), mRNA
957	13722	26388	3.85	3.0E-79	AF232708.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3095	15860	28501	1.51	3.0E-79	U09410.1	NT	Homo sapiens cell-line tsA201a chloride ion current inducer protein 1 (Chn) gene, complete cds
5277	18082	30738	5.24	3.0E-79	AF110322.1	NT	Human zinc finger protein ZNF131 mRNA, partial cds
5637	18432	31345	1.24	3.0E-78	AB020699.1	NT	Homo sapiens MSTP016 (MST016) mRNA, complete cds
							Homo sapiens mRNA for KIAA0892 protein, partial cds

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5662	19457	31371	0.83	3.0E-79	BE780470.1	EST_HUMAN	601482143F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884554 5'
5662	19457	31372	0.83	3.0E-79	BE780470.1	EST_HUMAN	601482143F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884554 5'
5682	18475	31382	3.56	3.0E-79	11428770	NT	Homo sapiens retin 1 (NTN1), mRNA
5682	18475	31393	3.56	3.0E-79	11428770	NT	Homo sapiens retin 1 (NTN1), mRNA
6846	19408	32422	0.87	3.0E-79	BE256883.1	EST_HUMAN	601112055F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352885 5'
6860	19442	32457	3.35	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
6860	19442	32458	3.35	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
7726	20399	33503	0.76	3.0E-79	6912455	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8064	20756	33887	1.61	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
8003	21970	35144	1.33	3.0E-79	10835036	NT	Homo sapiens tetrapeptide repeat domain 3 (TTC3), mRNA
10245	22893		1.24	3.0E-79	AV698115.1	EST_HUMAN	AV698115 GKC Homo sapiens cDNA clone GKCAHE11 5'
10768	23452	36694	1.62	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
10768	23452	36695	1.52	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
281	13088		0.99	2.0E-79	H63129.1	EST_HUMAN	y448f03.c1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:208541 3'
619	13398	26033	1.6	2.0E-79	BE378928.1	EST_HUMAN	601159415F2 NIH_MGC_63 Homo sapiens cDNA clone IMAGE:3351107 5'
607	13674	26339	2.28	2.0E-79	4757841	NT	Homo sapiens BCL2-like 2 (BCL2L2) mRNA
1012	13772		2.09	2.0E-79	AI523747.1	EST_HUMAN	th18h07 x1 NCJ_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2118685 3'
1781	14522	27226	1.12	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
1781	14522	27227	1.12	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
2144	14874	27607	5.93	2.0E-79	4565863	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2144	14874	27608	5.93	2.0E-79	4565863	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2189	14918	27652	1.07	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
2721	15428	28166	1.09	2.0E-79	AB023154.1	NT	Homo sapiens mRNA for KIAA0637 protein, partial cds
3893	16943	29283	0.83	2.0E-79	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
4144	16886	29517	1.09	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
5585	18382		1.22	2.0E-79	AA312223.1	EST_HUMAN	EST182826 Jurkat T-cells V1 Homo sapiens cDNA 5' end similar to similar to C. elegans hypothetical protein, cosmid B0303.15
5840	19435	31348	0.8	2.0E-79	11161769	NT	Homo sapiens X transporter protein 3 (XT3), mRNA
6149	18926	31896	1.14	2.0E-79	AB020637.1	NT	Homo sapiens mRNA for KIAA0830 protein, partial cds
6864	17941	30577	0.89	2.0E-79	AF283813.1	NT	Homo sapiens membrane-associated calcium-independent phospholipase A2 gamma mRNA, complete cds
7067	19758	32822	1.7	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 8 (ARHGAP8), transcript variant 4, mRNA
7067	19758	32823	1.7	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 8 (ARHGAP8), transcript variant 4, mRNA
7899	20694	33821	1.08	2.0E-79	4506442	NT	Homo sapiens retinoblastoma-like 1 (p107) (RBL1) mRNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8415	21108	34247	2.25	2.0E-79	11427428	NT	Homo sapiens hypothetical protein FLJ11008 (FLJ11008), mRNA
8694	21356	34503	0.58	2.0E-79	8823248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
8694	21356	34504	0.58	2.0E-79	8823248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
8902	21583	34734	1.65	2.0E-79	11432184	NT	Homo sapiens similar to ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) membrane sector associated protein M8-9 (H. sapiens) (LOC38961), mRNA
9892	22640	35850	1.44	2.0E-79	S72869.1	NT	H4(D105170)=putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
9892	22640	35851	1.44	2.0E-79	S72869.1	NT	H4(D105170)=putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
10696	23389	36627	12.34	2.0E-79	U07819.1	NT	Human contractin 1 precursor (CNTN1) mRNA, complete cds
10696	23632	36880	4.05	2.0E-79	BE064986.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
10696	23632	36881	4.05	2.0E-79	BE064986.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
11636	17903	30594	2.18	2.0E-79	7682357	NT	Homo sapiens KIAA0879 protein (KIAA0879), mRNA
12018	24548	31108	5.19	2.0E-79	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
12238	24690	31075	2.89	2.0E-79	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (GELSR1), mRNA
6492	25091		3.76	1.0E-79	BF368071.1	EST_HUMAN	MRO-NN0087-260600-017-b10 NN0087 Homo sapiens cDNA
8143	20837	33969	0.78	1.0E-79	BE394211.1	EST_HUMAN	601311517F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632909 5'
11823	24220	37543	2.05	1.0E-79	BF087405.1	EST_HUMAN	QV2-HT0540-120900-358-a05 HT0540 Homo sapiens cDNA
12047	26333		1.8	1.0E-79	AI460115.1	EST_HUMAN	ar78a04.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2151438 3'
3143	15907	28551	2.35	9.0E-80	AA725848.1	EST_HUMAN	ai23e05.e1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
3143	15907	28552	2.35	9.0E-80	AA725848.1	EST_HUMAN	ai23e05.e1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
9812	22561	35757	1.14	9.0E-80	BE798803.1	EST_HUMAN	601581652F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3636061 5'
11245	23907	37199	8.66	9.0E-80	11433924	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 8 (SLC7A8), mRNA
11245	23907	37200	8.66	9.0E-80	11433924	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 8 (SLC7A8), mRNA
3588	16342		1.31	8.0E-80	U94387.1	NT	Homo sapiens Y chromosome spermatogenesis candidate protein (RBM) pseudogene mRNA, partial cds
7604	20175	33268	3.07	8.0E-80	11422947	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
7504	20175	33269	3.07	8.0E-80	11422947	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
9302	21869	35142	1.13	8.0E-80	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9302	21869	35143	1.13	8.0E-80	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
880	13649	26318	1.12	6.0E-80	AI422197.1	EST_HUMAN	tf58d02.x1 NCL_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2103459 3' similar to SW:NUEM_HUMAN Q16785 NADH-UBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR;
1638	14384	27071	2.22	6.0E-80	U64896.1	NT	Homo sapiens NRD convertase mRNA, complete cds

Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4252	16983	29620	1.08	6.0E-80	AB032981.1	NT	Homo sapiens mRNA for KIAA1155 protein, partial cds
4252	16983	29621	1.08	6.0E-80	AB032981.1	NT	Homo sapiens mRNA for KIAA1155 protein, partial cds
5712	18505	31427	1.79	6.0E-80	11421482	NT	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), mRNA
5984	18766	31729	3.37	6.0E-80	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
6135	18913	31882	4.68	6.0E-80	11436736	NT	Homo sapiens tubby like protein 3 (TULP3), mRNA
6179	18956		1.17	6.0E-80	7882363	NT	Homo sapiens KIAA0841 protein (KIAA0841), mRNA
6230	19004	31980	0.96	6.0E-80	M18533.1	NT	Homo sapiens dystrophin (DMD) mRNA, complete cds
8723	21415	34558	3.22	6.0E-80	11528484	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
8723	21415	34559	3.22	6.0E-80	11528484	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
8917	21608	34761	1.51	6.0E-80	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
9259	21838	35113	0.83	6.0E-80	AF161495.1	NT	Homo sapiens HSPC146 mRNA, complete cds
9761	22412	35619	1.48	6.0E-80	U20211.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exon 21
10861	23541	36788	2.83	6.0E-80	11427366	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
11187	23652	37138	26.56	6.0E-80	AF226730.1	NT	Homo sapiens Cyt19 mRNA, complete cds
11702	24297	37623	1.59	6.0E-80	U76560.1	NT	Human peroxisome targeting signal 2 receptor (Pex7) mRNA, complete cds
11756	24347	37677	1.5	6.0E-80	AF102265.1	NT	Homo sapiens N-acetylglucosamine-phosphate mutase mRNA, complete cds
11802	24392	37725	2.26	6.0E-80	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11802	24392	37726	2.26	6.0E-80	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11903	13049	26318	1.88	6.0E-80	AI422197.1	EST_HUMAN	U58d02.x1 NCL CGAP_Bn23 Homo sapiens cDNA clone IMAGE:2103459 3' similar to SW-NUEM_HUMAN Q16785 NADH-UBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR;
12028	25217		2.42	6.0E-80	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12216	24678		5.78	6.0E-80	AB028900.1	NT	Homo sapiens CST gene for cerebroside sulfoltransferase, exon 1, 2, 3, 4, 5
12707	25341		1.94	6.0E-80	AJ133127.1	NT	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)
12804	25051	30853	1.35	6.0E-80	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
574	13354	25983	0.74	5.0E-80	4506228	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 3 (PSMD3) mRNA
815	13586	26253	1.97	6.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MN1B) mRNA, complete cds
815	13588	26254	1.97	6.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MN1B) mRNA, complete cds
1166	13920		2.39	5.0E-80	X91647.1	NT	H. sapiens rxt1 gene (exon 12)
1439	14186		2.26	5.0E-80	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
2361	15083	27821	1.99	6.0E-80	U89338.1	NT	Human (3)mbt protein homolog mRNA, complete cds
2431	15152	27886	1.65	5.0E-80	AB037855.1	NT	Homo sapiens mRNA for KIAA1434 protein, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2797	15502	28242	1.67	5.0E-80	4504292	NT	Homo sapiens H3 histone family, member J (H3F-J) mRNA
4018	16764	28393	1.37	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4018	16764	28394	1.37	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4900	17827	30244	1.28	5.0E-80	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C088
8255	20949	34086	1.04	5.0E-80	8910283	NT	Mus musculus keratin complex 2, gene 8g (Krt2-8g), mRNA
9157	21898	35056	8.77	4.0E-80	F25915.1	EST_HUMAN	HSPD13155 Hk3 Homo sapiens cDNA clone s400045F03
211	13023		8.96	3.0E-80	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4681	17395	30030	1.7	3.0E-80	BF085009.1	EST_HUMAN	PMO-GN0018-040900-002-E03 GN0018 Homo sapiens cDNA
4850	17580		3.77	3.0E-80	BE817485.1	EST_HUMAN	QV4-BN0263-040900-241-g10 BN0263 Homo sapiens cDNA
5730	18522	31443	2.68	3.0E-80	AI081676.1	EST_HUMAN	cc23e12.x1 Soares_NSIF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1687054 3' similar to TR:035790 035790 PIG-L;
1790	14530	27238	5.08	2.0E-80	R36321.1	EST_HUMAN	yg55a08.f1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:38060 5'
1853	14591	27307	1.19	2.0E-80	AI444821.1	EST_HUMAN	RET4B7 subtracted retina cDNA library Homo sapiens cDNA clone RET4B7
2049	14782	27608	5.82	2.0E-80	AL043116.2	EST_HUMAN	DKFZB434D1323_1 494 (synonym: htes3) Homo sapiens cDNA clone DKFZB434D1323 5'
6708	19623	32867	0.93	2.0E-80	AA582952.1	EST_HUMAN	mi80x01.s1 NCI_CGAP_C09 Homo sapiens cDNA clone IMAGE:1080177 3'
6813	19474	32498	1.71	2.0E-80	11421930	NT	Homo sapiens Golgi transport complex protein (90 kDa) (GTC90), mRNA
7151	19838	32908	1.48	2.0E-80	T78215.1	EST_HUMAN	yc6812.f1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:22851 5' similar to SP:K1CR_XENLA_P08802 KERATIN, TYPE I CYTOSKELETAL ENDO B;
9057	21746	34905	1.41	2.0E-80	AW984270.1	EST_HUMAN	EST376343 MAGE resequences, MAGE Homo sapiens cDNA
9698	22320	36516	1	2.0E-80	AJ007378.1	NT	Homo sapiens GGT gene, exon 6
10780	23463	38705	4.49	2.0E-80	AA383382.1	EST_HUMAN	Z70F12.f1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:72727 5' similar to TR:G191315
331	13132		2.25	1.0E-80	AL163303.2	NT	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN.;
782	13554	28215	1.37	1.0E-80	AF231920.1	NT	Homo sapiens chromosome 21 segment HS21C103
1947	14682		2.44	1.0E-80	A1732658.1	EST_HUMAN	Homo sapiens chromosome 21 unknown mRNA
5060	17779	30397	0.99	1.0E-80	4557610	NT	repetitive element;
5244	18050		6.43	1.0E-80	BE386615.1	EST_HUMAN	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
5881	18667	31608	6.58	1.0E-80	L10347.1	NT	601274305F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615433 5'
6406	19175	32174	1.36	1.0E-80	5174540	NT	Human pro-alpha1 type II collagen (COL2A1) gene exons 1-54, complete cds
7106	19794	32859	0.95	1.0E-80	AJ224172.1	NT	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), nuclear gene encoding mitochondrial protein, mRNA
7472	20145	33237	2.53	1.0E-80	A1949731.1	EST_HUMAN	Homo sapiens mRNA for lipophilin B
7472	20145	33238	2.53	1.0E-80	A1948731.1	EST_HUMAN	wq25c05.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2472286 3'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8130	20824	33980	2.84	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8601	21288	34495	1.72	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8601	21293	34436	1.72	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8185	21855	35019	1.21	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
8185	21855	35020	1.21	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
10325	22972	36192	0.95	1.0E-80	D63478.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10548	23244	36478	5.25	1.0E-80	11841276	NT	Homo sapiens similar to rat myomegalin (LOC84182), mRNA
10548	23244	36480	5.25	1.0E-80	11841276	NT	Homo sapiens similar to rat myomegalin (LOC84182), mRNA
12289	24718	31051	1.57	1.0E-80	11417801	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
12498	24853	31034	3.08	1.0E-80	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
10583	23278	36515	1.46	8.0E-81	A1251752.1	EST_HUMAN	qh90g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854286 3'
10583	23278	36516	1.46	8.0E-81	A1251752.1	EST_HUMAN	qh90g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854286 3'
11102	23772	37046	8.46	8.0E-81	BE394525.1	EST_HUMAN	601310531F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632070 5'
7152	19839	32909	3.58	7.0E-81	A1822115.1	EST_HUMAN	z681c08.x6 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:288918 3'
4354	17092	29726	5.26	6.0E-81	BE256828.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
4354	17092	29727	5.26	6.0E-81	BE256828.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
6201	18009	30630	2.1	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
5201	18009	30631	2.1	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7489	20161	33253	0.97	6.0E-81	AF038680.1	NT	Homo sapiens chromosome 1p33-p34 beta-1, 4-galactosyltransferase mRNA, complete cds
9136	21824	34989	1.36	6.0E-81	AA360017.1	EST_HUMAN	EST08128 Fetal lung II Homo sapiens cDNA 5' end
11800	24390	37723	1.61	6.0E-81	BE396092.1	EST_HUMAN	601312522F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3659284 5'
12430	24803	31041	2.28	6.0E-81	BF678022.1	EST_HUMAN	602163666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4284601 5'
12430	24803	31042	2.28	6.0E-81	BF678022.1	EST_HUMAN	602163666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4284601 5'
2214	14942	27882	2.8	5.0E-81	BE268042.1	EST_HUMAN	601125505F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345480 5'
8311	21005	34143	1.83	5.0E-81	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8311	21005	34144	1.83	5.0E-81	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9548	22201	35383	0.77	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
9548	22201	35384	0.77	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
11577	24178	37491	2.23	5.0E-81	9506634	NT	Homo sapiens hypothetical protein (FLJ11045), mRNA
11839	24423	37764	1.3	5.0E-81	11526341	NT	Homo sapiens armadillo repeat gene deletion in velocardiofacial syndrome (ARVCF), mRNA
686	13461	26109	2.03	4.0E-81	A1521435.1	EST_HUMAN	th60e12.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2122702 3' similar to TR-Q85560 Q85560
1815	14555	27270	1.31	4.0E-81	AW779612.1	EST_HUMAN	h98d02.x1 NCI_CGAP_Cot14 Homo sapiens cDNA clone IMAGE:3035607 3' similar to SW.COPG_BOVIN P53620 COATOMER GAMMA SUBUNIT ;

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3168	15631	28580	3.58	4.0E-81	AB037768.1	NT	Homo sapiens mRNA for KIAA1345 protein, partial cds
3619	16372	28013	0.88	4.0E-81	AW004608.1	EST_HUMAN	ws90h03.x1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:2605289 3' similar to TR:O43815 O43815 STRIATIN.;
4139	16881	29509	2.26	4.0E-81	AF263306.1	NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
4139	16881	28510	2.26	4.0E-81	AF263306.1	NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
4360	17086	29733	1.33	4.0E-81	8823209	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
7177	19863	32934	1.11	4.0E-81	4757893	NT	Homo sapiens calcium channel, voltage-dependent, L type, alpha 2/delta subunit (CACNA2), mRNA
7289	19882	33056	0.57	4.0E-81	11420544	NT	Homo sapiens ets variant gene 1 (ETV1), mRNA
8185	20879	34016	3.59	4.0E-81	X06889.1	NT	Human mRNA for amyloid A4(751) protein
8443	21135	34271	3.43	4.0E-81	U20197.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
8443	21135	34272	3.43	4.0E-81	U20197.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
9126	21814	34960	6.1	4.0E-81	AB018001.1	NT	Homo sapiens mRNA for Death-associated protein kinase 2, complete cds
10001	22649	35861	1.53	4.0E-81	11425281	NT	Homo sapiens ligase I, DNA, ATP-dependent (LIG1), mRNA
10070	22718	36935	0.71	4.0E-81	11439065	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
10070	22718	36936	0.71	4.0E-81	11439065	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
11140	23807	37086	3.2	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B), mRNA
11140	23807	37087	3.2	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B), mRNA
11928	25280	30731	3.63	4.0E-81	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
11928	25280	30732	3.63	4.0E-81	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12463	24831	31030	1.53	4.0E-81	11417871	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
12463	24831	31031	1.53	4.0E-81	11417871	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
12597	24911	31004	4.82	4.0E-81	11417974	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
1244	13983	26658	12.36	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
1244	13983	26659	12.36	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
2371	15093	27832	1.23	3.0E-81	AF077188.1	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
2989	15755	28400	5.83	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
2989	15755	28401	5.83	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
2837	15605	28254	2.97	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3877121 5'
2837	15605	28255	2.97	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3877121 5'
3755	16507	28144	0.71	2.0E-81	AW611542.1	EST_HUMAN	hg85c01.x1 NCI_CGAP_K111 Homo sapiens cDNA clone IMAGE:2852384 3'
7857	20552	33678	0.6	2.0E-81	89233839	NT	Homo sapiens hypothetical protein (LOC56586), mRNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1402	14149	28829	1.13	1.0E-81	W26539.1	EST_HUMAN	3373 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
3844	16397	28037	1.07	1.0E-81	AW800658.1	EST_HUMAN	EST1372729 IMAGE resequences, MAGF Homo sapiens cDNA
4479	17214	28839	3.56	1.0E-81	AA040370.1	EST_HUMAN	2445109.r1 Soares_pregnant_uterus_NihHPU Homo sapiens cDNA clone IMAGE:485825 5' similar to
4600	17335	28864	8.89	1.0E-81	BE047888.1	EST_HUMAN	PIR-S52437 S52437 CDP-diacylglycerol synthase - fruit fly:
5187	17890	37785	4.69	1.0E-81	U87928.1	NT	tz45c04.y1 NCI_CGAP_Bms2 Homo sapiens cDNA clone IMAGE:2281528 5'
5289	18075	30704	4.1	1.0E-81	11432968	NT	Human acetylcholinesterase (ACO2) gene, exon 3
5289	18075	30705	4.1	1.0E-81	11432968	NT	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5415	18214	30822	0.85	1.0E-81	AA255589.1	EST_HUMAN	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5568	18365	31273	3.47	1.0E-81	U52351.1	NT	zr85d08.r1 Soares_NihHPU_S1 Homo sapiens cDNA clone IMAGE:682475 5' similar to SW-PR12_HUMAN
5568	18365	31274	3.47	1.0E-81	U52351.1	NT	P49843 DNA PRIMASE 58 KD SUBUNIT:
6054	18834	31796	1.81	1.0E-81	BF674641.1	EST_HUMAN	Homo sapiens arm-repeat protein NPRAP/neurojuncin (CTNND2) mRNA, partial cds
6453	19221	32218	0.59	1.0E-81	11420985	NT	Homo sapiens arm-repeat protein NPRAP/neurojuncin (CTNND2) mRNA, partial cds
6453	19221	32219	0.59	1.0E-81	11420985	NT	Homo sapiens arm-repeat protein NPRAP/neurojuncin (CTNND2) mRNA, partial cds
6639	19401	32416	0.87	1.0E-81	AJ133289.1	NT	602137864F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274535 5'
7689	20333	33444	8.45	1.0E-81	11432968	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70KD) (PDE1C), mRNA
8676	22328	35523	5.09	1.0E-81	BE968278.1	EST_HUMAN	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70KD) (PDE1C), mRNA
8676	22328	35524	5.09	1.0E-81	BE968278.1	EST_HUMAN	Homo sapiens cavedin-1/-2 locus, Cavig1, DTS522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
8868	22519	35715	5.08	1.0E-81	BE594367.1	EST_HUMAN	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
10003	22651	35883	1.59	1.0E-81	AA630784.1	EST_HUMAN	601645051F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3830228 5'
10005	22853	35895	3.27	1.0E-81	BE744545.1	EST_HUMAN	601645051F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3830228 5'
10005	22853	35896	3.27	1.0E-81	BE744545.1	EST_HUMAN	601343180F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685483 5'
10405	23051	36289	1.59	1.0E-81	AW897550.1	EST_HUMAN	ect14d08.s1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:858427 3' similar to
10860	23540	36787	2.9	1.0E-81	8923698	NT	SW:YB36_YEAST P38126 HYPOTHETICAL 60.5 KD PROTEIN IN RPS101-RPS13 INTERGENIC REGION:
11028	23700	36906	1.97	1.0E-81	AW844888.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
11028	23700	36907	1.97	1.0E-81	AW844888.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
11240	16397	29037	1.72	1.0E-81	AW880658.1	EST_HUMAN	CM3-NN0059-140400-147-412 NN0059 Homo sapiens cDNA
11507	24108	37421	1.99	1.0E-81	BF204253.1	EST_HUMAN	Homo sapiens golgin-like protein (GLP), mRNA
12132	24622	31083	4.13	1.0E-81	11418138	NT	MR0-CT0008-2505989-019 CT0008 Homo sapiens cDNA
12	12839	25452	3.6	8.0E-82	AF161406.1	NT	MR0-CT0008-2505989-019 CT0008 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
104	12839	25452	2.45	8.0E-82	AF161408.1	NT	Homo sapiens HSPC288 mRNA, partial cds
257	13065	25704	1.1	8.0E-82	U09888.1	NT	Human CRFB4 gene, partial cds
795	13567	26227	2.83	8.0E-82	U09888.1	NT	Human CRFB4 gene, partial cds
867	13636	26306	0.84	8.0E-82	U09888.1	NT	Human CRFB4 gene, partial cds
1474	14221	26807	1.42	8.0E-82	AB037748.1	NT	Homo sapiens mRNA for KIAA1327 protein, partial cds
1654	14400	27089	1.43	8.0E-82	6715801	NT	Homo sapiens glutathione peroxidase 5 (epididymal androgen-related protein) (GPX5), transcript variant 2, mRNA
4219	16960	29585	0.9	8.0E-82	8923432	NT	Homo sapiens hypothetical protein FLJ20461 (FLJ20461), mRNA
1433	14180		1.7	7.0E-82	BF035327.1	EST_HUMAN	601459531F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE3862088 5'
2789	15474	28216	1.2	7.0E-82	AU144050.1	EST_HUMAN	AU144050 HEMBA1 Homo sapiens cDNA clone HEMBA1000762 3'
11759	24350	37682	0.71	7.0E-82	AA683747.1	EST_HUMAN	aa68604.s1 Strategene echizo brain S11 Homo sapiens cDNA clone IMAGE:868342 3'
4104	16847	29473	0.71	5.0E-82	AA515512.1	EST_HUMAN	nf69e11.s1 NCI_CGAP_CcS Homo sapiens cDNA clone IMAGE:925198 3'
1636	14412	27103	49.82	4.0E-82	AF081494.1	NT	Homo sapiens alpha-tubulin isoform 1 mRNA, complete cds
5409	18208	30915	0.8	4.0E-82	BF351691.1	EST_HUMAN	QV2-HT0540-120900-362-608 HT0540 Homo sapiens cDNA
5409	18208	30916	0.8	4.0E-82	BF351691.1	EST_HUMAN	QV2-HT0540-120900-362-608 HT0540 Homo sapiens cDNA
5671	18466	31381	0.65	4.0E-82	M25833.1	NT	Human von Willebrand factor gene, exon 9
11716	24310	37633	11.61	4.0E-82	A1937300.1	EST_HUMAN	wp75e09.x1 NCI_CGAP_Brn26 Homo sapiens cDNA clone IMAGE:2467624 3' similar to TR:075276
12374	24773		5.05	4.0E-82	AF029701.2	NT	O76278 PKD1;
						NT	Homo sapiens presentin-1 gene, exons 1 and 2
271	13079	25721	21.65	3.0E-82	4502186	NT	Homo sapiens amyloid beta (A4) precursor protein (protease resistant-II, Alzheimer disease) (APP), mRNA
687	13482	26110	3.11	3.0E-82	BE005705.1	EST_HUMAN	RC2-BN0120-010400-013-602 BN0120 Homo sapiens cDNA
770	13542	26203	5.7	3.0E-82	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
850	13620	26230	10.65	3.0E-82	4502186	NT	Homo sapiens amyloid beta (A4) precursor protein (protease resistant-II, Alzheimer disease) (APP), mRNA
1039	13789		18.58	3.0E-82	AA725848.1	EST_HUMAN	at23a05.s1 Soares testis_NHT Homo sapiens cDNA clone 1343648 3'
1333	14082	26758	1.25	3.0E-82	AW875073.1	EST_HUMAN	RC8-PT0001-190100-021-B02 PT0001 Homo sapiens cDNA
1450	14197	26881	3.44	3.0E-82	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1894	14631	27341	1.91	3.0E-82	BE813232.1	EST_HUMAN	RC1-BN0005-260700-018-g04 BN0005 Homo sapiens cDNA
2000	14735	27459	1.53	3.0E-82	4501922	NT	Homo sapiens adenylylate cyclase activating polypeptide 1 (pituitary) receptor type I (ADCYAP1R1) mRNA
3269	16028		2.52	3.0E-82	5453811	NT	Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (NTRK2) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4864	17593	30216	0.98	3.0E-82	AA135979.1	EST_HUMAN	z88b04.r1 Stragene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:585711 5' similar to SW-PAGT_BOVIN Q07537 POLYPEPTIDE N-ACETYLGLACTOSAMINYLTRANSFERASE ;
8052	20746	33878	3.14	3.0E-82	11425208	NT	Homo sapiens ankryin-like with transmembrane domains 1 (ANKTM1), mRNA
8454	21148	34287	0.88	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
8454	21146	34288	0.88	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
9724	22375	35575	3.23	3.0E-82	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
9724	22376	35576	3.23	3.0E-82	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
583	13363	25990	2.55	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0989 protein, partial cds
583	13363	25991	2.55	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0989 protein, partial cds
1681	14426	27121	1.21	2.0E-82	AL046890.1	EST_HUMAN	DKFZp434M117.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434M117 5'
3827	16578	28210	1.25	2.0E-82	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4208	16949	29575	1.17	2.0E-82	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4521	17256	29890	1.01	2.0E-82	AB029019.1	NT	Homo sapiens mRNA for KIAA1088 protein, partial cds
4521	17256	29891	1.01	2.0E-82	AB029019.1	NT	Homo sapiens mRNA for KIAA1088 protein, partial cds
4816	17547	30172	2.85	2.0E-82	AF045555.1	NT	Homo sapiens wbscr1 (WBSOR1) and wbscr5 (WBSOR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
5021	17742	30352	1.46	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5021	17742	30353	1.46	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5384	18184	30874	5.65	2.0E-82	AB018270.1	NT	Homo sapiens mRNA for KIAA0727 protein, partial cds
6082	18861	31827	4.73	2.0E-82	AF234882.1	NT	Homo sapiens FAM4A1 splice variant a (FAM4A1) mRNA, complete cds
7581	25426		0.91	2.0E-82	AI476428.1	EST_HUMAN	hm21g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157272 3'
7705	20369	33482	0.85	2.0E-82	8823130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8204	20898	34035	2.16	2.0E-82	11321570	NT	Homo sapiens slit (Drosophila) homolog 3 (SLIT3), mRNA
8598	21280	34397	0.45	2.0E-82	7657340	NT	Homo sapiens microarchidia (mouse) homolog (MORC), mRNA
8598	21280	34398	0.45	2.0E-82	7657340	NT	Homo sapiens microarchidia (mouse) homolog (MORC), mRNA
10009	22657	35870	1.84	2.0E-82	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
10009	22657	35871	1.84	2.0E-82	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
11237	23900	37187	1.27	2.0E-82	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11237	23900	37188	1.27	2.0E-82	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11279	23940	37233	4.45	2.0E-82	U80736.1	NT	Homo sapiens CAGF9 mRNA, partial cds
11279	23940	37234	4.45	2.0E-82	U80736.1	NT	Homo sapiens CAGF9 mRNA, partial cds
11750	24341	37670	1.91	2.0E-82	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
11957	24508		1.59	2.0E-82	N94950.1	EST_HUMAN	zb31d10.a1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12485	24844		3.47	2.0E-82	AA011278.1	EST_HUMAN	z01g09.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:428568 5'
12775	25029		1.95	2.0E-82	11418097	NT	Homo sapiens SRY (sex determining region Y)-box 10 (SOX10), mRNA
678	13358	25985	1.14	1.0E-82	11645921	NT	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA
1186	13338		0.77	1.0E-82	BE885106.1	EST_HUMAN	601510859F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912207 5'
1263	14012	26679	3.1	1.0E-82	BE064388.1	EST_HUMAN	RC4-BT0310-110300-015-410 BT0310 Homo sapiens cDNA
1284	14013	26680	1.26	1.0E-82	AB011110.2	NT	Homo sapiens mRNA for KIAA0538 protein, partial cds
8841	21533	34678	1.13	1.0E-82	AB037838.1	NT	Homo sapiens mRNA for KIAA1417 protein, partial cds
9553	22208	36390	0.59	1.0E-82	AB014562.1	NT	Homo sapiens mRNA for KIAA0862 protein, partial cds
10145	22783		1.17	1.0E-82	BF616338.1	EST_HUMAN	UHH-BW1-aps-f03-0-UJ.s1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3084053 3'
10848	23337	36576	2.34	1.0E-82	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8615	21307	34449	4.51	9.0E-83	BF672220.1	EST_HUMAN	602150403F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4281561 5'
10174	22822	36039	0.53	9.0E-83	BE263347.1	EST_HUMAN	601117160F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357734 5'
1392	14139	28816	3.33	8.0E-83	BE383973.1	EST_HUMAN	601273349F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614362 5'
1676	15523	27115	5.63	8.0E-83	N68951.1	EST_HUMAN	z448112.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:295823 3'
1335	14084	26759	0.97	7.0E-83	AW385526.1	EST_HUMAN	QV4-LT0016-271209-068-111 LT0016 Homo sapiens cDNA
2868	15035		1.88	7.0E-83	AA584655.1	EST_HUMAN	not2h01.s1 NCL_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100497 3' similar to contains Alu repetitive element
4765	17497		6.68	7.0E-83	BF221813.1	EST_HUMAN	7p37a07.x1 NCL_CGAP_P28 Homo sapiens cDNA clone IMAGE:3847893 3' similar to TR-Q9Y316 Q9Y316 DJ207H1.1;
5960	18742	31702	0.58	7.0E-83	11428657	NT	Homo sapiens KIAA07100 gene product (KIAA07100), mRNA
11717	24311	37634	1.4	7.0E-83	5729753	NT	Homo sapiens transcription factor CA150 (CA150) mRNA
11717	24311	37635	1.4	7.0E-83	5729753	NT	Homo sapiens transcription factor CA150 (CA150) mRNA
394	13179	25828	1.88	6.0E-83	M33320.1	NT	Human platelet Glycoprotein IIb (GPIIb) gene, exons 2-29
1779	14520	27224	1.5	6.0E-83	AW579088.1	EST_HUMAN	hr31h03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2833525 3' similar to
3017	15763	28432	0.71	6.0E-83	AW616405.1	EST_HUMAN	SW:YBEB_HAEIN_P44471 HYPOTHETICAL PROTEIN H10034.;
3046	15812		1.08	6.0E-83	AF231919.1	NT	QV4-ST0234-181199-037-405 ST0234 Homo sapiens cDNA
5211	18019	30841	2.02	6.0E-83	4507868	NT	Homo sapiens chromosome 21 unknown mRNA
5933	18716	31674	1.52	6.0E-83	AJ010770.1	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
7401	20079	33160	2.27	6.0E-83	11422024	NT	Homo sapiens hyperion gene, exons 1-50
9675	22228	35413	2.85	6.0E-83	4505314	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
9689	22321	35517	2.34	6.0E-83	11430647	NT	Homo sapiens myomesin (M-protein) 2 (16kD) (MYOM2), mRNA
9689	22321	35518	2.34	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Pp18 (PRP18), mRNA
9689	22321	35518	2.34	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Pp18 (PRP18), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11517	24117		2.53	6.0E-83	AA486105.1	EST_HUMAN	ab14e10.s1 Strategene lung (#837210) Homo sapiens cDNA clone IMAGE:840810 3' similar to contains THR12 THR repetitive element;
11908	24472		4.27	8.0E-83	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
925	13692		2.03	5.0E-83	U17883.1	NT	Human succinate dehydrogenase iron-protein subunit (sdhB) gene, exon 5
2043	15526		1.55	5.0E-83	AF006305.1	NT	Homo sapiens 26S proteasome regulatory subunit (SUG2) mRNA, complete cds
3629	16382	28022	1.18	5.0E-83	AL133207.2	NT	Novel human gene mapping to chromosome X
3688	16836	29275	0.77	5.0E-83	4885190	NT	Homo sapiens deoxyribonuclease I (DNASE1), mRNA
5020	17741	30350	11.53	5.0E-83	4557013	NT	Homo sapiens catalase (CAT) mRNA
5020	17741	30351	11.53	5.0E-83	4557013	NT	Homo sapiens catalase (CAT) mRNA
5063	17812	30428	1.07	6.0E-83	5031680	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
5063	17812	30429	1.07	5.0E-83	5031680	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
625	13404	28039	1.72	4.0E-83	AF224699.1	NT	Homo sapiens miamosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
977	13742		4.9	3.0E-83	AA368311.1	EST_HUMAN	EST179542 Placenta 1 Homo sapiens cDNA similar to similar to endogenous retrovirus ERV8
2780	15485		1.33	3.0E-83	AA632654.1	EST_HUMAN	np87c07.s1 NC1_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:1133262 similar to contains THR12 THR repetitive element;
6483	18250		0.62	3.0E-83	AI217223.1	EST_HUMAN	qf73e06.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755882 3'
1782	14532	27240	1.86	2.0E-83	AA938492.1	EST_HUMAN	qf73e06.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755882 3'
1782	14532	27241	1.86	2.0E-83	AA938492.1	EST_HUMAN	Q92814 MYELOBLAST KIAA0216.;
1818	14655	27365	4.07	2.0E-83	N66951.1	EST_HUMAN	Q92814 MYELOBLAST KIAA0216.;
2856	15824	28268	1.1	2.0E-83	BE828694.1	EST_HUMAN	Q92814 MYELOBLAST KIAA0216.;
3263	16025		1.89	2.0E-83	11430834	NT	Q92814 MYELOBLAST KIAA0216.;
3756	16508		0.7	2.0E-83	AL163202.2	NT	Q92814 MYELOBLAST KIAA0216.;
4302	17041	29668	4.11	2.0E-83	AF202878.1	NT	Q92814 MYELOBLAST KIAA0216.;
4604	17339	29988	6.14	2.0E-83	7706398	NT	Q92814 MYELOBLAST KIAA0216.;
4604	17339	29989	6.14	2.0E-83	7706398	NT	Q92814 MYELOBLAST KIAA0216.;
5189	17867	30620	0.9	2.0E-83	U08679.1	NT	Q92814 MYELOBLAST KIAA0216.;
5755	18547	31468	0.85	2.0E-83	11428081	NT	Q92814 MYELOBLAST KIAA0216.;
5875	18662	31603	1.31	2.0E-83	BE885401.1	EST_HUMAN	Q92814 MYELOBLAST KIAA0216.;
6647	19408	32423	1.12	2.0E-83	AF129533.1	NT	Q92814 MYELOBLAST KIAA0216.;
7335	20017	33085	6.36	2.0E-83	AF129533.1	NT	Q92814 MYELOBLAST KIAA0216.;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7704	20367	33480	0.64	2.0E-83	BF105097.1	EST_HUMAN	801822030F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4042318 5'
7742	20438	33560	0.78	2.0E-83	AB001025.1	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
7742	20438	33561	0.78	2.0E-83	AB001025.1	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
7886	20681	33710	1.79	2.0E-83	U68707.1	NT	Rattus norvegicus densin-180 mRNA, complete cds
8213	20907	34042	2.05	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
8213	20907	34043	2.05	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
9494	22147	36328	0.48	2.0E-83	5453881	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1) mRNA
9494	22147	36329	0.48	2.0E-83	5453881	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1) mRNA
9834	22582	35780	4.01	2.0E-83	M22094.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
9834	22582	35781	4.01	2.0E-83	M22094.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
10016	22684	35881	1.39	2.0E-83	AU117659.1	EST_HUMAN	AU117659 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'
10089	22737	35952	0.77	2.0E-83	AW505600.1	EST_HUMAN	U1HF-BN0-amd-h-07-0-J1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081852 5'
10753	23438	36682	6.84	2.0E-83	11438448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
10845	23527	36770	2.19	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135 J1 547 (synonym: htfb1) Homo sapiens cDNA clone DKFZp547J135 5'
10845	23527	36771	2.19	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135 J1 547 (synonym: htfb1) Homo sapiens cDNA clone DKFZp547J135 5'
12522	24869		3.85	2.0E-83	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
1360	14137	26813	2.18	1.0E-83	4504326	NT	Homo sapiens hydroxymethyl-Coenzyme A dehydrogenase/3-ketacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1390	14137	26814	2.18	1.0E-83	4504326	NT	Homo sapiens hydroxymethyl-Coenzyme A dehydrogenase/3-ketacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1442	14189	26873	0.98	1.0E-83	AF105067.1	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
1442	14189	26874	0.98	1.0E-83	AF105067.1	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
3179	15942	28593	1.18	1.0E-83	7682349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
3850	16800	28237	3.93	1.0E-83	AF053768.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
4220	16861	29588	1.99	1.0E-83	Z25822.1	NT	H. sapiens gene for mitochondrial dodecenoyl-CoA delta-isoenerase, exon 3
4831	17582	30184	3.36	1.0E-83	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
6596	19359	32373	1.65	1.0E-83	AI027614.1	EST_HUMAN	069508.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1045431 3' similar to gb:M4241 QM
3776	16528	29167	3.8	7.0E-84	BE901209.1	EST_HUMAN	PROTEIN (HUMAN);
1272	14021	26887	3.5	6.0E-84	BE838864.1	EST_HUMAN	901676023F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958853 5'
1272	14021	26888	3.5	6.0E-84	BE838864.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
2396	15117	27654	8.26	6.0E-84	AA776574.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
5160	17892		3.33	6.0E-84	ALD42863.2	EST_HUMAN	ae88a03.s1 Siratogene scitzo brain S11 Homo sapiens cDNA clone IMAGE:971020 3'
							DKFZp434H0322 J1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434H0322 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5431	18230	30843	1.87	6.0E-84	AA897339.1	EST_HUMAN	el47g03.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460500 3' similar to gbM14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
5574	18371	31282	1.04	6.0E-84	11428718	NT	Homo sapiens acetyl LDL receptor; SREC= scavenger receptor expressed by endothelial cells (SREC); mRNA
5574	18371	31283	1.04	6.0E-84	11428718	NT	Homo sapiens acetyl LDL receptor; SREC= scavenger receptor expressed by endothelial cells (SREC); mRNA
7373	20053	33134	2.94	6.0E-84	BE810371.1	EST_HUMAN	PMO-L70019-180600-004-F02 LT0019 Homo sapiens cDNA
7591	20259	33367	0.97	6.0E-84	AF038391.1	NT	Homo sapiens pre-mRNA splicing factor (PRP16) mRNA, complete cds
7872	20667	33789	2.37	6.0E-84	BE770199.1	EST_HUMAN	PM4-F10054-160600-004-e10 F10054 Homo sapiens cDNA
687	19472	26121	0.71	5.0E-84	AA382811.1	EST_HUMAN	EST86094 Testis 1 Homo sapiens cDNA 5' end
3013	15779		1.82	5.0E-84	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
6016	18768	31758	0.59	5.0E-84	AA167678.1	EST_HUMAN	z39e07.11 Striatum HNT neuron (#837233) Homo sapiens cDNA clone IMAGE:682100 5' similar to TR-G483915 G483915 RETROTRANSPOSABLE L1 ELEMENT LRE2 FROM CHROMOSOME 1Q.;
11633	24133	37438	3.17	5.0E-84	11428740	NT	Homo sapiens regulatory factor X. 3 (influences HLA class II expression) (RFX3), mRNA
11652	24249	37570	1.77	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11652	24249	37571	1.77	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11613	24401	37738	1.44	5.0E-84	11433550	NT	Homo sapiens tropomodulin 2 (neuronal) (TMOD2), mRNA
1389	14136	28812	2.19	4.0E-84	AI685321.1	EST_HUMAN	wa76c04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2302086 3' similar to SW-NRDC_HUMAN O43847 NARDILYSIN PRECURSOR.;
4897	17624	30242	1.79	4.0E-84	AF069691.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
5475	18274	31169	1.36	4.0E-84	11388168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
5475	18274	31169	1.36	4.0E-84	11388168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
6175	18952	31825	1.88	4.0E-84	AF059650.1	NT	Homo sapiens histone deacetylase 3 (HDAC3) gene, complete cds
7547	20217	33319	14.38	4.0E-84	11421328	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
8809	21501	34647	1.21	4.0E-84	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapman-110) (DLG2) mRNA
8809	21501	34648	1.21	4.0E-84	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapman-110) (DLG2) mRNA
10835	23517	36759	4.51	4.0E-84	AB032956.1	NT	Homo sapiens mRNA for KIAA1130 protein, partial cds
308	13112	25752	1.24	3.0E-84	AF026200.1	NT	Homo sapiens Bach1 protein homolog mRNA, partial cds
1953	14688	27401	1.15	3.0E-84	5453655	NT	Homo sapiens pericentriolar material 1 (PCM1) mRNA
2001	14736	27460	2.41	3.0E-84	AL068880.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
3578	16333	28977	1.07	3.0E-84	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
3731	16483	29121	5.2	3.0E-84	AF014459.1	NT	Homo sapiens X-linked juvenile retinoschistis precursor protein (XLRST1) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10790	23473		3.55	3.0E-84	AI083801.1	EST_HUMAN	wu20d05.x1 Soares Dieckgraefe_cdon_NHCD Homo sapiens cDNA clone IMAGE:2520585 3' similar to gb:U05083 60S RIBOSOMAL PROTEIN L18A (HUMAN);
2098	14829	27563	6.94	2.0E-84	BE695397.1	EST_HUMAN	CM1-BT0795-190600-272-508 BT0795 Homo sapiens cDNA
2098	14829	27564	6.94	2.0E-84	BE695397.1	EST_HUMAN	CM1-BT0795-190600-272-508 BT0795 Homo sapiens cDNA
2944	15710	28362	9.31	2.0E-84	AF036943.1	NT	Homo sapiens myelin transcription factor 1-like (MYT1L) mRNA, complete cds
2962	15728	28378	0.77	2.0E-84	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
5439	18238	30952	0.82	2.0E-84	BF511575.1	EST_HUMAN	UIH-B14-act-e-02-0-JL1 NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3084963 3'
5439	18238	30953	0.82	2.0E-84	BF511575.1	EST_HUMAN	UIH-B14-act-e-02-0-JL1 NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3084963 3'
6540	19305	32310	0.75	2.0E-84	H63370.1	EST_HUMAN	yr56e11.s1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:209324 3'
7958	20651		1.35	2.0E-84	AI288674.1	EST_HUMAN	qm87c09.x1 NCI CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1896728 3'
8284	20979	34118	0.49	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8284	20978	34119	0.49	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9245	21924	35094	0.81	2.0E-84	AU120280.1	EST_HUMAN	AU120280 HEMBB1 Homo sapiens cDNA clone HEMBB1000339 5'
9631	22283	35476	0.61	2.0E-84	H22841.1	EST_HUMAN	ym49e11.t1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:51383 5' similar to SP-APOH_RAT P26844 BETA-2-GLYCOPROTEIN I;
12169	24843	31100	3	2.0E-84	BF448000.1	EST_HUMAN	nae30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:Q8UGS3 Q8UGS3 DJ758G23.1;
12159	24843	31101	3	2.0E-84	BF448000.1	EST_HUMAN	nae30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:Q8UGS3 Q8UGS3 DJ758G23.1;
304	13108	25748	1.89	1.0E-84	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
536	13319	25853	20.84	1.0E-84	4507952	NT	Homo sapiens tyrosine 3-monooxygenase/hypophan 5-monooxygenase activation protein, zeta polypeptide (YWHAZ) mRNA
703	13478		1	1.0E-84	11427631	NT	Homo sapiens complement component 5 (C5), mRNA
1270	14019	26685	3.17	1.0E-84	AA984379.1	EST_HUMAN	am85b11.s1 Striatogene schizo brain S11 Homo sapiens cDNA clone IMAGE:1628885 3'
2048	14781	27508	1.92	1.0E-84	BE392137.1	EST_HUMAN	601308006F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3626257 5'
2220	14948	27688	1.13	1.0E-84	11427197	NT	Homo sapiens pericentriolar material 1 (PCM1), mRNA
3733	16488	29123	2.46	1.0E-84	AA720851.1	EST_HUMAN	mw12a06.s1 NCI CGAP_SS1 Homo sapiens cDNA clone IMAGE:1239108 3'
4363	17120	29762	5.01	1.0E-84	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4651	17385	30017	3.53	1.0E-84	ALD43314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
4651	17385	30018	3.53	1.0E-84	ALD43314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
4855	17120	29762	2.67	1.0E-84	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
5153	17870	30483	1.15	1.0E-84	7656998	NT	Homo sapiens catenin (cadherin-associated protein), alpha 2 (CTNNA2), mRNA
5830	18619	31551	0.98	1.0E-84	11434422	NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA

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6097	18875	31844	1.41	1.0E-84	S73482.1	NT	uterine water channel=28 kda erythrocyte integral membrane protein homolog (human, uterus, mRNA, 1340 nt)
6781	19525	32552	1.68	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
6781	19525	32553	1.68	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7007	19699	32753	2.32	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7369	20049	33130	1.26	1.0E-84	8393994	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
7501	20137	33229	2.42	1.0E-84	11430846	NT	Homo sapiens NGFLA binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA
8435	22113		3.05	1.0E-84	5031984	NT	Homo sapiens nuclear transport factor 2 (placental protein 15) (PP15) mRNA
8670	22322	35319	0.53	1.0E-84	AF224511.1	NT	Homo sapiens Ca2+-binding protein CABP3 (CABP3) gene, exon 6 and partial cds
9690	17900	30588	3.05	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
9690	17900	30589	3.05	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
10498	23142	36368	1.08	1.0E-84	11437356	NT	Homo sapiens glutamate receptor, ionotropic, AMPA 4 (GRIA4), mRNA
12046	24586		2.34	1.0E-84	11417812	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RX1), mRNA
12151	24698	31098	3.2	1.0E-84	11418185	NT	Homo sapiens acornitase 2, mitochondrial (ACO2), mRNA
948	13712		1.06	9.0E-85	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
1051	13810	26469	2.39	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skip mRNA, complete cds
1051	13810	26470	2.39	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skip mRNA, complete cds
1360	14108	26783	0.95	9.0E-85	4768669	NT	Homo sapiens leupaxin (LDPL), mRNA
1572	14319	27004	1.23	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1572	14319	27005	1.23	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1670	14415	27108	3.6	9.0E-85	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZp434P211), mRNA
4225	16966	28591	0.96	9.0E-85	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4824	17565	30177	0.86	9.0E-85	5901979	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA
4858	17585	30208	1.12	9.0E-85	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
1114	13871	26530	1.45	7.0E-85	LO5094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
11942	24239		4.32	7.0E-85	AF113210.1	NT	Homo sapiens MSTP030 mRNA, complete cds
11392	23998	37300	3.35	6.0E-85	11438573	NT	Homo sapiens DEADH (Asp-Glu-Ala-Asp) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11392	23998	37301	3.35	6.0E-85	11438573	NT	Homo sapiens DEADH (Asp-Glu-Ala-Asp) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11768	24357	37660	1.29	6.0E-85	AA403053.1	EST_HUMAN	z82801.1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:726889 5' similar to TR-G1335769
2332	15056	27782	1.49	5.0E-85	AL163284.2	NT	G1335769 GAG-POL_POLYPROTEIN.; ; Homo sapiens chromosome 21 segment HS21C084

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4398	17138		0.8	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1a isoform (CACNA1I) mRNA, complete cds
5364	18166	30851	1.4	5.0E-85	BF035674.1	EST_HUMAN	601458846F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3982402 5'
6364	18166	30852	1.4	5.0E-85	BF035674.1	EST_HUMAN	601458846F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3982402 5'
11063	23733	37005	2	5.0E-85	AF224689.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
12743	17138		5.28	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1a isoform (CACNA1I) mRNA, complete cds
6056	18838	31787	1.51	4.0E-85	BF677910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
6056	18838	31788	1.51	4.0E-85	BF677910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
10472	23118		1.3	4.0E-85	BE078283.1	EST_HUMAN	RC1-BT0623-120200-011-c07 BT0623 Homo sapiens cDNA
1276	14028	28694	2.88	3.0E-85	AF096157.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 6
1773	14515	27215	3.51	3.0E-85	T97495.1	EST_HUMAN	y63g08.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:121504 5'
4280	17019	28846	6.53	3.0E-85	BE267189.1	EST_HUMAN	601189704F2 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3533616 5'
4841	17571	30194	1.45	3.0E-85	11024895	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
4841	17571	30195	1.45	3.0E-85	11024895	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
5316	18120	30777	1.07	3.0E-85	11438001	NT	Homo sapiens lactoferrin proline rich protein (LPRP), mRNA
5994	18176	31737	0.63	3.0E-85	11422024	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
6043	18823	31783	5.71	3.0E-85	7682309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
6043	18823	31784	5.71	3.0E-85	7682309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
6853	18553		7.78	3.0E-85	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
7295	18878	33055					Homo sapiens GTPase regulator associated with the focal adhesion kinase pp125(FAK); KIAA0621 protein (KIAA0621), mRNA
7771	20467	33591	0.91	3.0E-85	11416870	NT	(KIAA0621), mRNA
8406	21089	34235	1.89	3.0E-85	U44853.1	NT	Homo sapiens DENN mRNA, complete cds
8877	21568	34712	0.74	3.0E-85	11525828	NT	Homo sapiens CGI-87 protein (LOC35108), mRNA
8206	22085	35257	3.8	3.0E-85	11430898	NT	Homo sapiens phospholipase C, epsilon (PLCE), mRNA
8206	22085	35258	0.96	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B* (SNRPB2), mRNA
10381	23027	36242	0.96	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B* (SNRPB2), mRNA
10730	23418	36659	0.66	3.0E-85	AF098842.1	NT	Homo sapiens phospholipid scramblase mRNA, complete cds
11490	24091	37403	1.88	3.0E-85	BE150392.1	EST_HUMAN	RC1-HT0288-031289-012-09 HT0288 Homo sapiens cDNA
11824	24408	37742	2.25	3.0E-85	5031860	NT	Homo sapiens EGF-like repeats and disocidin-like domains 3 (EDIL3), mRNA
11824	24408	37743	1.79	3.0E-85	AB029030.1	NT	Homo sapiens mRNA for KIAA1107 protein, partial cds
11824	24408	37743	1.78	3.0E-85	AB029030.1	NT	Homo sapiens mRNA for KIAA1107 protein, partial cds
12640	24937		1.98	3.0E-85	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1017	13777	26438	2.34	2.0E-85	AF248540.1	NT	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds
1383	14130	26803	0.97	2.0E-85	7706205	NT	Homo sapiens CGI-201 protein (LOC51340), mRNA
1388	14146	26824	8.28	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
1389	14146	26825	8.28	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
2228	14854	27682	1.53	2.0E-85	U10528.1	NT	Human DNA polymerase beta gene, exons 12 and 13
2826	14063		5.28	2.0E-85	7657488	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3022	16788	28435	1.18	2.0E-85	M30838.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4300	17039	29668	4.51	2.0E-85	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4527	17282	29898	1.22	2.0E-85	4826977	NT	Homo sapiens resilin (RELN) mRNA
4854	17684	30207	0.97	2.0E-85	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
9173	21843	35009	3.18	2.0E-85	A1760620.1	EST_HUMAN	w87n08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398431 3' similar to contains element
9549	22202	35385	1.08	2.0E-85	AJB14459.1	EST_HUMAN	MSR1 repetitive element ;
10162	22810	36028	1.32	2.0E-85	A1896394.1	EST_HUMAN	w49d03.x1 Soares_NFL_T_G8C_S1 Homo sapiens cDNA clone IMAGE:2331481 3'
2285	15010		2.86	1.0E-85	BE794306.1	EST_HUMAN	wm84d12.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2443607 3'
2302	15113	27850	8.42	1.0E-85	BE618382.1	EST_HUMAN	601681410F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945818 5'
2382	15113	27851	8.42	1.0E-85	BE618382.1	EST_HUMAN	601462817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3868021 5'
9881	22333	35528	4.38	1.0E-85	BE257817.1	EST_HUMAN	601462817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3868021 5'
10842	23524	36768	2.77	1.0E-85	AA778795.1	EST_HUMAN	601108738F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3350553 5'
10842	23524	36767	2.77	1.0E-85	AA778795.1	EST_HUMAN	z45f03.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3'
10918	23599	36847	1.73	1.0E-85	BF311552.1	EST_HUMAN	z45f03.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3'
10919	23599	36848	1.73	1.0E-85	BF311552.1	EST_HUMAN	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128440 5'
10997	23670	36827	1.28	1.0E-85	Y00052.1	NT	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128440 5'
11773	24384	37898	2.41	1.0E-85	A1198420.1	EST_HUMAN	Human mRNA for T-cell cyclophilin
12050	24722	31053	4.4	1.0E-85	11417882	NT	q558d07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1880468 3'
12285	24722	31053	4.74	1.0E-85	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1409	14158		11.19	9.0E-88	BE274217.1	EST_HUMAN	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
11688	24283	37918	1.57	8.0E-86	4503224	NT	601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2867680 5'
916	13883	26345	2.34	7.0E-86	AA980801.1	EST_HUMAN	Homo sapiens cytochrome P450, subfamily IIF, polypeptide 1 (CYP2F1) mRNA
916	13883	26346	2.34	7.0E-86	AA980801.1	EST_HUMAN	q88f08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 3'
6103	18881	31948	1.02	7.0E-86	9866886	NT	q88f08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 3'
6103	18881	31949	1.02	7.0E-86	9866886	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
6880	17958	30553	6.65	7.0E-86	11421737	NT	Homo sapiens Tax1 (human T-cell leukemia virus type I) binding protein 1 (TAX1BP1), mRNA
8843	21335	34478	3.06	7.0E-86	L38557.1	NT	Homo sapiens galactose oxidase (GALC) gene, exon 15

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9599	22252		1.39	7.0E-86	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
9658	22310	35508	2.27	7.0E-86	11526307	NT	Homo sapiens Digeorge syndrome critical region gene 6 (DGCR6), mRNA
10882	23562	36809	1.72	7.0E-86	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
10882	23562	36810	1.72	7.0E-86	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
1271	14020	26686	2.88	6.0E-86	4505492	NT	Homo sapiens oxoglutarate dehydrogenase (lipoamide) (OGDH), mRNA
5105	17823	30440	2.64	6.0E-86	Y19139.1	NT	Homo sapiens enteropeptidase gene, exons 20 and 21
5107	17825	30442	1.07	6.0E-86	6005833	NT	Homo sapiens 24 kDa intrinlec membrane protein (PMP24), mRNA
206	13018	25660	4.98	4.0E-86	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458830 5'
5944	18728	31684	12.1	4.0E-86	BE265843.1	EST_HUMAN	601176865F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531953 5'
11205	13018	25660	2.18	4.0E-86	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458830 5'
5509	18307	31208	6.97	3.0E-86	AW340946.1	EST_HUMAN	x282h12x1 NCI_CGAP_L24 Homo sapiens cDNA clone IMAGE:2871719 3'
8160	20854	33985	1.05	3.0E-86	AV722329.1	EST_HUMAN	AV722329 HTB Homo sapiens cDNA clone HTBBS04 5'
10120	22768	35980	3.37	3.0E-86	BE886479.1	EST_HUMAN	601508966F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
10120	22768	35981	3.37	3.0E-86	BE886479.1	EST_HUMAN	601508966F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
11413	23180	39408	5.14	3.0E-86	AI659240.1	EST_HUMAN	tu18b02x1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:2251371 3'
11708	24303	37628	1.8	3.0E-86	11037056	NT	Homo sapiens myosin X (MYO10), mRNA
260	13068	25706	2.02	2.0E-86	AA306284.1	EST_HUMAN	EST1177232 Jurkat T-cells VI Homo sapiens cDNA 5' and
405	13190		2.59	2.0E-86	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C0003
1168	13922	26584	3.21	2.0E-86	N58977.1	EST_HUMAN	yz19e08.L1 Soares multiple sclerosis 2NbhMSP Homo sapiens cDNA clone IMAGE:283478 5'
1478	14225	26910	1.93	2.0E-86	4758827	NT	Homo sapiens neuroxin III (NRXN3), mRNA
1478	14225	26911	1.93	2.0E-86	4758827	NT	Homo sapiens neuroxin III (NRXN3), mRNA
2188	14917	27651	6.09	2.0E-86	9635487	NT	Human endogenous retrovirus, complete genome
2266	14902	27732	1.55	2.0E-86	AB033103.1	NT	Homo sapiens mRNA for KIAA1277 protein, partial cds
3410	16168	28917	1.3	2.0E-86	AW986142.1	EST_HUMAN	EST378215 IMAGE resequences, MAGI Homo sapiens cDNA
3729	16481	29118	3.54	2.0E-86	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAAT-delta), mRNA, complete cds
3729	16481	29119	3.54	2.0E-86	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAAT-delta), mRNA, complete cds
4019	16765		2.64	2.0E-86	AW515742.1	EST_HUMAN	hd87g08x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2916542 3'
4737	17469	30108	3.26	2.0E-86	AF066490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A), mRNA, partial cds
5782	18573	31501	1.52	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5782	18573	31502	1.52	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
6974	25098	32476	0.69	2.0E-86	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
7908	20603	33733	0.69	2.0E-86	U84744.1	NT	Human Cheek-Hgashl syndrome protein short isoform (LYST), mRNA, complete cds
8414	21107		0.47	2.0E-86	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C0027

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8472	21164	34307	2.31	2.0E-88	11437135	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8472	21164	34308	2.31	2.0E-88	11437135	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8801	21493	34640	0.65	2.0E-86	10863876	NT	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA
9218	21897	35087	1.95	2.0E-88	11422084	NT	Homo sapiens chromosome segregation 1 (yeast homolog)-like (CSE1L), mRNA
10345	22392	36210	2.91	2.0E-88	11545846	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10345	22392	36211	2.91	2.0E-88	11545846	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10400	23046	36262	1.15	2.0E-86	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
10820	23503	36742	2.64	2.0E-86	4750051	NT	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS8KA6), mRNA
12458	24827	31027	3.07	2.0E-86	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P-1), mRNA
12621	24828		4.26	2.0E-86	AB011398.1	NT	Homo sapiens gene for AF-6, complete cds
1592	14398	27027	2.28	1.0E-86	4828855	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 1 (76kD) (NADH-coenzyme Q reductase) (NDUFS1), mRNA
3160	15923	28569	1.5	1.0E-86	5453849	NT	Homo sapiens fibulin 5 (FBLN5), mRNA
3229	15982	28645	2.7	1.0E-86	L20492.1	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
3280	16051	28699	1.32	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3280	16051	28700	1.32	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3926	16676	29318	0.88	1.0E-86	7706161	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
3926	16676	29319	0.88	1.0E-86	7706161	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
4233	16974	29599	5.2	1.0E-86	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4578	17313	29941	1.23	1.0E-86	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
5465	18264	31155	2	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
11606	18264	31155	1.37	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
6272	18078		1.81	9.0E-87	AI160703.1	EST_HUMAN	q77c09.x1 Soares_fetal_Nbl-H19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to SW:K1CJ_MOUSE P02635 KERATIN, TYPE I CYTOSKELETAL 10;
7348	20029	33105	1.7	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
7348	20029	33106	1.7	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
467	13252	25893	15.93	8.0E-87	X62245.1	NT	O.cuniculus mRNA for elongation factor 1 alpha
2294	15019	27755	1.78	7.0E-87	BF083211.1	EST_HUMAN	7H85F02.X1 NCI_CGAP_Cot16 Homo sapiens cDNA clone IMAGE:3322779 3'
2294	15019	27756	1.78	7.0E-87	BF083211.1	EST_HUMAN	7H85F02.X1 NCI_CGAP_Cot16 Homo sapiens cDNA clone IMAGE:3322779 3'
6307	19079	32064	0.57	7.0E-87	AW890336.1	EST_HUMAN	MIR0-NT0039-020500-004-rt11 NT0039 Homo sapiens cDNA
8089	20783	33913	3.4	7.0E-87	BF352778.1	EST_HUMAN	IL3-HT0619-060700-198-D10 HT0619 Homo sapiens cDNA
8354	20425	33544	1.15	7.0E-87	BE712861.1	EST_HUMAN	IL5-HT0702-160600-103-d08 HT0702 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9971	22619	35822	3.85	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_J1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
9971	22619	35823	3.85	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_J1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
10366	25129		0.61	7.0E-87	A0181585.1	EST_HUMAN	α559H01.s1 Soares NIHMFu_S1 Homo sapiens cDNA clone IMAGE:1660657 3'
10806	23489	36724	6.65	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 Intron A
10806	23489	36725	6.65	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 Intron A
3517	16273	28927	0.89	6.0E-87	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
5128	17846	30463	0.69	6.0E-87	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
6327	19097	32085	2.02	6.0E-87	AB028004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
10625	23318		4.13	6.0E-87	11432444	NT	Homo sapiens similar to SET translocation (myeloid leukemia-associated) (H. sapiens) (LOC88102), mRNA
1135	13891	26551	1.42	5.0E-87	AA382811.1	EST_HUMAN	EST80094 Testis 1 Homo sapiens cDNA 5' end
12297	13891	26551	1.56	5.0E-87	AA382811.1	EST_HUMAN	EST80094 Testis 1 Homo sapiens cDNA 5' end
945	13711	26376	1.61	4.0E-87	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1149	13904	26566	13.59	4.0E-87	AB037855.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
2024	14759	27498	1.93	4.0E-87	AB007925.1	NT	Homo sapiens CGI-60 protein (LOC51626), partial cds
2421	15142	27874	1.03	4.0E-87	7706299	NT	Homo sapiens CGI-60 protein (LOC51626), mRNA
2421	15142	27875	1.03	4.0E-87	7706299	NT	Homo sapiens CGI-60 protein (LOC51626), mRNA
3457	16213	28966	1.8	4.0E-87	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24)) homolog; translocated to, 4 (MLLT4) mRNA
5360	18162	30846	2.77	4.0E-87	O00321	SWISSPROT	ETS-RELATED PROTEIN 71 (ETS TRANSLOCATION VARIANT 2)
5954	18736	31695	4.53	4.0E-87	BE247284.1	EST_HUMAN	TCBAP1E4051 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4051
7670	20334	33445	0.72	4.0E-87	L48524.1	NT	Homo sapiens tuberin (TSC2) gene, exon 10
11118	23788	37065	3.44	4.0E-87	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
12398	25268	30721	1.5	4.0E-87	11417982	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12398	25268	30722	1.5	4.0E-87	11417982	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12541	24881		2.25	4.0E-87	11417812	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RX1L1), mRNA
2779	15484	28223	2.77	2.0E-87	4885420	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4 (HMG4) mRNA
3704	16516	29154	0.83	2.0E-87	AU116935.1	EST_HUMAN	Homo sapiens HEMBA1 Homo sapiens cDNA clone HEMBA1000307 5'
4857	17586	30209	1.28	2.0E-87	BF376311.1	EST_HUMAN	AU116935 HEMBA1 Homo sapiens cDNA clone HEMBA1000307 5'
4907	17634	30249	1.47	2.0E-87	BE175478.1	EST_HUMAN	GMO-TN0038-150900-852-h08 TN0038 Homo sapiens cDNA
5575	18372	31284	10.34	2.0E-87	BE734190.1	EST_HUMAN	RC5-HT0580-200300-031-G04 HT0580 Homo sapiens cDNA
5575	18372	31285	10.34	2.0E-87	BE734190.1	EST_HUMAN	RC5-HT0580-200300-031-G04 HT0580 Homo sapiens cDNA
6234	19008		9.81	2.0E-87	BE567183.1	EST_HUMAN	601568041F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843730 5'

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6569	19362	32375	0.69	2.0E-87	N48128.1	EST_HUMAN	Y21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243398 5'
6883	19600	32638	0.81	2.0E-87	AV654143.1	EST_HUMAN	AV654143 GLC Homo sapiens cDNA clone GLCDSG04 3'
7073	19764	32828	1.58	2.0E-87	BE294432.1	EST_HUMAN	601176032F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531511 5'
7128	19814	32882	0.94	2.0E-87	11433046	NT	Homo sapiens hec domain and RLD 2 (HERC2), mRNA
7363	20034	33112	39.61	2.0E-87	N48128.1	EST_HUMAN	Y21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243398 5'
7587	20255	33362	35.45	2.0E-87	N48128.1	EST_HUMAN	Y21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243398 5'
8294	20688	34127	17.42	2.0E-87	X52851.1	NT	Human cyclophilin gene for cyclophilin (EC 5.2.1.8)
9685	22337		5.72	2.0E-87	BE531136.1	EST_HUMAN	601278315F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610539 5'
1159	15521		2.09	1.0E-87	7705683	NT	Homo sapiens putative glycolipid transfer protein (LOC51054), mRNA
1411	14158	26840	1.1	1.0E-87	AW361977.1	EST_HUMAN	PM2-CT0265-141089-001-g04 CT0265 Homo sapiens cDNA
1411	14158	26841	1.1	1.0E-87	AW361977.1	EST_HUMAN	PM2-CT0265-141089-001-g04 CT0265 Homo sapiens cDNA
3697	16451	28090	6.23	1.0E-87	Y00052.1	NT	Human mRNA for T-cell cyclophilin
3717	16470	29108	2.43	1.0E-87	4758827	NT	Homo sapiens neuraxin III (NRXN3) mRNA
5086	17814	30431	0.69	1.0E-87	AF114487.1	NT	Homo sapiens Intersectin long isoform (ITSN) mRNA, complete cds
5086	17814	30432	0.69	1.0E-87	AF114487.1	NT	Homo sapiens Intersectin long isoform (ITSN) mRNA, complete cds
5149	12993	25570	1.04	1.0E-87	AI004091.1	EST_HUMAN	af50404.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1620199 3'
6132	18910	31878	1.91	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
6132	18910	31879	1.91	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7077	19768	32832	0.62	1.0E-87	AF039517.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7077	19768	32833	0.62	1.0E-87	AF039517.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7083	19773	32838	1.18	1.0E-87	4506786	NT	Homo sapiens corticotropin-releasing factor type 1 receptor gene, exon 8
7268	19881	33057	1.23	1.0E-87	11431560	NT	Homo sapiens [Q motif containing GTPase activating protein 1 (IQGAP1) mRNA
8015	20710	33840	12.93	1.0E-87	AF214592.1	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
8807	21499	34844	0.97	1.0E-87	AB022918.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
8807	21499	34845	0.97	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
9533	22186	35371	2.85	1.0E-87	BE818183.1	EST_HUMAN	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
9533	22186	35372	2.85	1.0E-87	BE818183.1	EST_HUMAN	RC8-BN0278-050700-012-E02 BN0278 Homo sapiens cDNA
10272	22920	36131	0.67	1.0E-87	M34426.1	NT	RC8-BN0278-050700-012-E02 BN0278 Homo sapiens cDNA
10633	23325	36562	1.55	1.0E-87	6728987	NT	Human L-plastin mRNA, 5' end
10921	23601		1.82	1.0E-87	D10083.1	NT	Homo sapiens hec domain and RLD 2 (HERC2), mRNA
10985	23641	36883	1.68	1.0E-87	5031660	NT	Homo sapiens RGH1 gene, retrovirus-like element
10985	23641	36884	1.68	1.0E-87	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
12983	25404		3.54	1.0E-87	7657632	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
12808	25240		3.94	1.0E-87	7657632	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA

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1084	13842	26500	10.24	9.0E-88	AF167465.1	NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exon 12
1327	14076	26750	2.76	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
1327	14076	26751	2.76	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
2115	14946	27675	1.57	9.0E-88	7661701	NT	Homo sapiens DKFZP588P1522 protein (DKFZP588P1522), mRNA
3617	16370	29012	1.35	9.0E-88	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
4236	16977	29802	2.73	9.0E-88	X91829.1	NT	H. sapiens ECE-1 gene (exon 9)
4236	16977	29803	2.73	9.0E-88	X91829.1	NT	H. sapiens ECE-1 gene (exon 9)
4943	17670	30279	1.05	9.0E-88	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
8919	21610	34754	3.82	6.0E-88	AF003528.1	NT	Homo sapiens X-linked anthrictic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
1820	14559		1.02	5.0E-88	7661887	NT	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA
2845	15355	28100	3.76	5.0E-88	N89399.1	EST_HUMAN	K9719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K9719 5' similar to ZINC FINGER PROTEIN HZF-1
3000	15766	28414	0.9	5.0E-88	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
3384	16143		2.28	5.0E-88	AI693217.1	EST_HUMAN	wt68108.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2336799 3' similar to cortalsin Alu repetitive element; contains element MER22 MER22 repetitive element;
4887	17421	30056	0.83	5.0E-88	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
6672	19589	32625	3.19	5.0E-88	HI0832.1	EST_HUMAN	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
7830	20525	33650	1.8	5.0E-88	AL163284.2	NT	Ym085010.T1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:47129 5'
9211	21890	35057	0.45	5.0E-88	BF680206.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
1308	14055	26728	1.42	4.0E-88	BF091229.1	EST_HUMAN	602154058F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295775 5'
1306	14055	26730	1.42	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
7143	19830	32899	1.43	4.0E-88	11416885	NT	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
10827	23509	36749	1.8	4.0E-88	4502894	NT	Homo sapiens transforming growth factor, beta-induced, 89kd (TGFB1), mRNA
11471	24072	37380	1.89	4.0E-88	7661947	NT	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
11471	24072	37381	1.89	4.0E-88	7661947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
715	13489	26140	1.85	3.0E-88	11545900	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
1805	14545		1.96	3.0E-88	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
2948	15714	28367	4.11	3.0E-88	N66951.1	EST_HUMAN	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
4216	16967	29679	1.24	3.0E-88	4501912	NT	2948f12 s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:295823 3'
4216	16967	29680	1.24	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4444	17180		4.06	3.0E-88	11428300	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
5216	18024	30648	2.85	3.0E-88	11428300	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
					11428567	NT	Homo sapiens vesicle-containing protein (VCP), mRNA

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5498	18286	31194	4.13	3.0E-88	8868888	NT	Homo sapiens polycystin-1, cell surface receptor (PRV1), mRNA
5818	18414	31327	3.58	3.0E-88	11420897	NT	Homo sapiens v-rat simian leukemia viral oncogene homolog A (ras related) (RALA), mRNA
6069	18848	31812	0.81	3.0E-88	11417370	NT	Homo sapiens interleukin 13 (IL13), mRNA
6319	25088	32076	1.18	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6319	25088	32077	1.18	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6965	19447	32465	14.69	3.0E-88	AF279255.1	NT	Homo sapiens putative anion transporter 1 mRNA, complete cds
7440	20117	33208	6.15	3.0E-88	11438400	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2), mRNA
7821	20516	33842	9.68	3.0E-88	11421726	NT	Homo sapiens growth differentiation factor 6 (cartilage-derived morphogenetic protein-1) (GDF6), mRNA
8096	20780	33921	1.35	3.0E-88	AF034374.1	NT	Homo sapiens myoblastum cofactor biosynthesis protein A and myoblastum cofactor biosynthesis protein C mRNA, complete cds
9334	20405	33521	1.99	3.0E-88	11528262	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
9828	22479	35680	0.58	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
9828	22479	35681	0.88	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
9857	22507	35705	1.28	3.0E-88	11439085	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
12139	24628		5.97	3.0E-88	11417974	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
1013	13773	26432	3.32	2.0E-88	7305188	NT	Homo sapiens Catestatin, presenilin-binding protein, EF hand transcription factor (CSEN), mRNA
1820	14367	27056	1.38	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1744	14488	27185	3.13	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3458	16214	28867	1.52	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
4391	17128	28780	2.13	2.0E-88	5031686	NT	Homo sapiens dynein, axonemal, light polypeptide 4 (DNAL4), mRNA
5821	18810	31539	5.63	1.0E-88	AW139565.1	EST_HUMAN	UHL-B11-aaa-4-04-0-J1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718760 3'
5821	18810	31540	5.63	1.0E-88	AW139565.1	EST_HUMAN	UHL-B11-aaa-4-04-0-J1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718760 3'
6548	18313	32317	23.81	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
6548	18313	32318	23.81	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
7022	19714	32771	1.4	1.0E-88	AF68034.1	EST_HUMAN	wq70a12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2476808 3'
7084	19774	32839	4.42	1.0E-88	AA488981.1	EST_HUMAN	aa54a11.s1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:824732 3' similar to WP-B0272.2 CE000851
9141	21872	35037	0.6	1.0E-88	AA190368.1	EST_HUMAN	zp87c02.r1 Stragene HeLa cell c3 837216 Homo sapiens cDNA clone IMAGE:827170 5' similar to SW-POL1_HUMAN P10288 RETROVIRUS-RELATED POL POLYPROTEIN ;
8478	22131	35311	2.97	1.0E-88	ALD43314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434N0323 5'
11422	23189	36420	2.99	1.0E-88	AA981479.1	EST_HUMAN	os01g03.s1 NCI_CGAP_G03 Homo sapiens cDNA clone IMAGE:1612758 3' similar to gb-M16342 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS C1/C2 (HUMAN);
12358	24760		3	1.0E-88	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046

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2739	15445	28184	1.33	8.0E-89	BE311557.1	EST_HUMAN	601142409F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506188 5'
6833	19495	32519	1.2	8.0E-89	11421514	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC83232), mRNA
424	13210	28858	1.72	7.0E-89	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
424	13210	28857	1.72	7.0E-89	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
4828	17559	30181	2.86	7.0E-89	4557390	NT	Homo sapiens complement component 8, beta polypeptide (C8B), mRNA
4878	17605	30228	3.35	7.0E-89	AL045748.1	EST_HUMAN	DKFZp434E246_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434E246 5'
5345	18148	30827	1.34	7.0E-89	X99832.1	NT	H. sapiens CLN3 gene, complete CDS
5345	18148	30828	1.34	7.0E-89	X99832.1	NT	H. sapiens CLN3 gene, complete CDS
6250	18024	31897	0.57	7.0E-89	7549808	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
6250	18024	31898	0.57	7.0E-89	7549808	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
7398	20076	33158	2.08	7.0E-89	11420754	NT	Homo sapiens actin related protein 2/3 complex, subunit 1A (41 kD) (ARPC1A), mRNA
7779	20474	33598	0.57	7.0E-89	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
7779	20474	33599	0.57	7.0E-89	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
8584	22237	35421	0.6	7.0E-89	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
10429	23076	38298	1.11	7.0E-89	X62048.1	NT	H. sapiens Wee1 hu gene
10429	23076	38297	1.11	7.0E-89	X62048.1	NT	H. sapiens Wee1 hu gene
10445	23091	36320	2.33	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
10445	23091	36321	2.33	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
11203	23867	37154	1.45	7.0E-89	M59783.1	NT	Human aldose reductase (AR) gene, segment 2
12774	25028		1.7	7.0E-89	U87827.1	NT	Human aconitase hydratase (ACO2) gene, exon 2
1002	13762	26423	0.73	6.0E-89	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
2210	14938	27676	1.27	6.0E-89	4506124	NT	Homo sapiens serine/threonine-protein kinase PRP4 homolog (PRP4) mRNA
2434	15155	27888	1.08	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA
2434	15155	27889	1.08	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA
3515	16271	28925	0.88	6.0E-89	7881817	NT	Homo sapiens HSPC159 protein (HSPC159), mRNA
4593	17328	28954	3.02	6.0E-89	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
4593	17328	28955	3.02	6.0E-89	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
5100	17819	30436	0.81	6.0E-89	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
5100	17819	30437	0.81	6.0E-89	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
5016	17737	30345	2.74	5.0E-89	BE244323.1	EST_HUMAN	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP0383
5016	17737	30346	2.74	5.0E-89	BE244323.1	EST_HUMAN	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP0383

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7487	20169	33251	1.95	4.0E-89	BE762749.1	EST_HUMAN	QVS-NT0022-080600-219-g03 NT0022 Homo sapiens cDNA
11088	23758	37034	1.68	4.0E-89	AI798872.1	EST_HUMAN	we91c03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2348452 3'
2879	15648	28289	1.51	3.0E-89	AW976181.1	EST_HUMAN	EST388280 MAGE resequences, MAGN Homo sapiens cDNA
7040	19731	32790	1.26	3.0E-89	AI217359.1	EST_HUMAN	qh17b06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844915 3'
10502	23148	36374	0.48	3.0E-89	AB002297.1	NT	Human mRNA for KIAA0289 gene, partial cds
10702	23398	36830	2.34	3.0E-89	N57357.1	EST_HUMAN	yy88a11.1 Soares_placenta_8to6weeks_2N1bHP8a9W Homo sapiens cDNA clone IMAGE:258148 5'
123	13184	28832	0.87	2.0E-89	7706870	NT	similar to SW:P14K_HUMAN P42358 PHOSPHATIDYLINOSITOL 4-KINASE ALPHA ;
123	13184	28833	0.87	2.0E-89	7706870	NT	Homo sapiens PXR2b protein (PX2b), mRNA
398	13184	28832	1.55	2.0E-89	7706870	NT	Homo sapiens PXR2b protein (PX2b), mRNA
398	13184	28833	1.55	2.0E-89	7706870	NT	Homo sapiens PXR2b protein (PX2b), mRNA
517	13301	28933	3.17	2.0E-89	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2883	16950	28293	1.53	2.0E-89	AI222095.1	EST_HUMAN	qp86c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131
3540	16298	28946	1.01	2.0E-89	AA759149.1	EST_HUMAN	GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element
3540	16298	28947	1.01	2.0E-89	AA759149.1	EST_HUMAN	ah70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320888 3'
4126	16887	29494	1.28	2.0E-89	AF089897.1	NT	ah70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320888 3'
4133	16875	29504	5.16	2.0E-89	X58742.1	NT	Homo sapiens topoisomerase-related function protein (TRF4-2) mRNA, partial cds
4133	16875	29505	5.16	2.0E-89	X58742.1	NT	H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4315	17054	29678	0.75	2.0E-89	AL163203.2	NT	H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4463	17189	29826	1.1	2.0E-89	AJ007378.1	NT	Homo sapiens chromosome 21 segment HS21C003
5259	18085	30386	0.68	2.0E-89	BE541744.1	EST_HUMAN	Homo sapiens GGT gene, exon 5
5393	18193	30386	2.8	2.0E-89	AB007546.1	NT	601065906F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452423 5'
6092	18498	31418	1.61	2.0E-89	U03985.1	NT	Homo sapiens gene for LECT2, complete cds
6116	18894	31861	0.63	2.0E-89	AL163285.2	NT	Human N-ethylmaleimide-sensitive factor mRNA, partial cds
7667	20237	33341	5.33	2.0E-89	U81004.1	NT	Homo sapiens chromosome 21 segment HS21C085
7835	20530	33657	3.07	2.0E-89	11428801	NT	Human GT24 (GT24) mRNA, partial cds
8316	21009	34146	1.02	2.0E-89	AJ245503.1	NT	Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchanger), member 2 (SLC24A2), mRNA
9152	21883	35052	0.6	2.0E-89	AB037754.1	NT	Homo sapiens partial mRNA for PEX5 related protein
9710	22361	35557	0.88	2.0E-89	AF170814.1	NT	Homo sapiens mRNA for KIAA1333 protein, partial cds
9710	22361	35558	0.88	2.0E-89	AF170814.1	NT	Homo sapiens CabP5 (CABP5) gene, exon 5
9710	22361	35558	0.88	2.0E-89	AF170814.1	NT	Homo sapiens CabP5 (CABP5) gene, exon 5

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11346	24036	37339	2.83	2.0E-89	11434411	NT	Homo sapiens integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), mRNA
11448	23216	36447	2.3	2.0E-89	5729867	NT	Homo sapiens hec domain and RLD 2 (HERC2), mRNA
11562	24161	37472	5.03	2.0E-89	11433673	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
11718	24312	37636	2.11	2.0E-89	U10692.1	NT	Human IMAGE-7 antigen (IMAGE7) pseudogene, complete cds
11570	24169	37483	5.97	1.0E-89	BF196052.1	EST_HUMAN	hr81d09.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:054778 O54778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN;
11570	24169	37484	5.97	1.0E-89	BF196052.1	EST_HUMAN	hr81d09.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:054778 O54778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN;
8126	20820	33956	1.67	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
8126	20820	33957	1.57	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1041	13901	28459	2.23	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1042	13901	28459	2.9	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1307	15565	26731	3.78	8.0E-90	BE670561.1	EST_HUMAN	7698f08.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
1307	15565	26732	3.78	8.0E-90	BE670561.1	EST_HUMAN	7698f08.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
8458	21150	34283	0.55	8.0E-90	BE177830.1	EST_HUMAN	RC1-HT0568-120400-022-b08 HT0568 Homo sapiens cDNA
10599	23293	36531	1.82	8.0E-90	A1222095.1	EST_HUMAN	q998c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
10599	23293	36532	1.52	8.0E-90	A1222095.1	EST_HUMAN	q998c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
10963	23639	36889	1.32	8.0E-90	AA705222.1	EST_HUMAN	z82g10.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:461442 3'
10963	23639	36890	1.32	8.0E-90	AA705222.1	EST_HUMAN	z82g10.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:461442 3'
816	13587		4.12	7.0E-90	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
8923	21016		2.08	7.0E-90	AA782977.1	EST_HUMAN	af83d08.s1 Soares_testis_NHT Homo sapiens cDNA clone 1375503 3'
8865	21556	34701	1.62	7.0E-90	BE962525.2	EST_HUMAN	60165583.R1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3855824 3'
8865	21556	34702	1.62	7.0E-90	BE962525.2	EST_HUMAN	60165583.R1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3855824 3'
10036	22684	35901	1.9	7.0E-90	H68849.1	EST_HUMAN	y86a04.s1 Soares_fetal_liver_spleen_1NFLS_Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;
10036	22684	35902	1.9	7.0E-90	H68849.1	EST_HUMAN	y86a04.s1 Soares_fetal_liver_spleen_1NFLS_Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10352	22899	36216	1.17	7.0E-90	BF528089.1	EST_HUMAN	602071208F1 NCI CGAP_Bm94 Homo sapiens cDNA clone IMAGE:4214257 5'
4201	16942	28568	9.12	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
4201	16942	28568	9.12	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
5894	18678	31626	3.27	6.0E-90	U77700.1	NT	Homo sapiens HsGCN1 mRNA, partial cds
5894	18678	31626	3.27	6.0E-90	U77700.1	NT	Homo sapiens HsGCN1 mRNA, partial cds
8226	20919	34056	2.75	6.0E-90	4504794	NT	Homo sapiens Insitol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA
8226	20919	34057	2.75	6.0E-90	4504794	NT	Homo sapiens Insitol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA
151	12668		19.84	5.0E-90	AB036344.1	NT	Homo sapiens TCL6 gene, exon 1-10b
1170	13824	26588	3.08	5.0E-90	U80228.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1813	14553	27267	1.47	5.0E-90	A1222095.1	EST_HUMAN	q986c08.x1 Scores_NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 (GAMMA-GLUTAMYLTRANSEPTIDASE 1 PRECURSOR (HUMAN)); contains Alu repetitive element
1813	14553	27268	1.47	5.0E-90	A1222095.1	EST_HUMAN	q986c08.x1 Scores_NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 (GAMMA-GLUTAMYLTRANSEPTIDASE 1 PRECURSOR (HUMAN)); contains Alu repetitive element
2560	16274	28011	2.79	5.0E-90	AF114487.1	NT	Homo sapiens Intersectin long isoform (ITSN) mRNA, complete cds
4503	17238	29871	2.05	5.0E-90	4506394	NT	Homo sapiens pregnancy-zone protein (PZP) mRNA
4622	17357	29892	0.98	5.0E-90	AL135549.1	EST_HUMAN	DKFZp762P1618_r1 762 (synonym: hma2) Homo sapiens cDNA clone DKFZp762P1618 5'
5504	18302	31203	2.94	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5606	18402	31316	1.31	5.0E-90	AB015617.1	NT	Homo sapiens ELKS mRNA, complete cds
5679	18302	31203	2.36	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
6631	18393	32407	0.74	5.0E-90	8910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56884), mRNA
6631	18393	32408	0.74	5.0E-90	8910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56884), mRNA
7114	18802	32668	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	18802	32667	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7463	20136	33228	9.01	5.0E-90	4557258	NT	Homo sapiens adenylate cyclase 9 (ADCY9) mRNA
7780	20485	33609	0.44	5.0E-90	4506758	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
8192	20886	34025	5.08	5.0E-90	11345483	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
9096	21784	34950	0.56	5.0E-90	4828670	NT	Homo sapiens cadherin 18 (CDH18) mRNA
9578	22232	35416	1.06	5.0E-90	11419429	NT	Homo sapiens similar to ecdysecticoid pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
10181	22828	36044	0.56	5.0E-90	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10312	22959	36175	0.6	5.0E-90	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10312	22959	36176	0.5	5.0E-90	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10344	22981	36209	9.16	5.0E-00	11433721	NT	Homo sapiens ATPase, aminophospholipid transporter-like, Class I, type 8A, member 2 (ATP8A2), mRNA
10402	23048	36284	0.54	5.0E-00	7662051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
10402	23048	36285	0.54	5.0E-00	7662051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
11731	24324	37848	2.41	5.0E-00	7662047	NT	Homo sapiens KIAA0305 gene product (KIAA0305), mRNA
12591	24948		2.08	5.0E-00	AB011399.1	NT	Homo sapiens gene for AF-3, complete cds
12841	24938		4.43	5.0E-00	AI523368.1	EST_HUMAN	ar78h05.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2128761 3'
295	13101	25742	1.93	4.0E-00	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
296	13101	25743	1.93	4.0E-00	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
1064	13822	26482	3.26	4.0E-00	4505316	NT	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
1884	14428	27125	8.09	4.0E-00	X69033.1	NT	H. sapiens gene encoding discoidin receptor tyrosine kinase, exon 16
2992	15758	28405	0.98	4.0E-00	AF007544.1	NT	Homo sapiens prostate-specific membrane antigen (PSM) gene, complete cds
3023	15789	28438	1.07	4.0E-00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3023	15789	28437	1.07	4.0E-00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4608	17343	28976	7.65	4.0E-00	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4743	17476	30109	2.17	4.0E-00	AB033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cds
4768	17500	30123	2.33	4.0E-00	M95987.1	NT	Human prohormone converting enzyme (NEC2) gene, exon 8
7751	20447	33570	1.08	3.0E-00	BF516168.1	EST_HUMAN	UI-HBW1-amy-b-04-0-UJ.s1 NCI CGAP Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
7751	20447	33571	1.08	3.0E-00	BF516168.1	EST_HUMAN	UI-HBW1-amy-b-04-0-UJ.s1 NCI CGAP Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
11630	24227	37551	17.81	3.0E-00	BE563833.1	EST_HUMAN	601335244F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3088147 5'
208	13020	25662	4.71	2.0E-00	BE537913.1	EST_HUMAN	601067378F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453834 5'
1150	13906	26567	2.67	2.0E-00	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1150	13905	26568	2.67	2.0E-00	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
3826	16577	29209	1.7	2.0E-00	AI198213.1	EST_HUMAN	qc54c02.x1 Soares_plicenta_8tc8weeks_2NHP8a9W Homo sapiens cDNA clone IMAGE:1713410 3'
4640	17374	30008	1.05	2.0E-00	AB006827.1	NT	similar to SW-OLF3_MOUSE P23275 OLFACTORY RECEPTOR OR3. ;
4853	17563	30208	7.31	2.0E-00	5729855	NT	Homo sapiens mRNA for KIAA0289 gene, partial cds
5695	18489	31410	4.86	2.0E-00	AW672686.1	EST_HUMAN	Homo sapiens GRB2-related adaptor protein (GRAP) mRNA
9689	22841	35534	4.78	2.0E-00	11427320	NT	be49d05.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2899881 5' similar to TR:O75208 O75208
9689	22341	35535	4.78	2.0E-00	11427320	NT	HYPOTHETICAL_35.5 KD PROTEIN. ;
9660	22510	35706	1.37	2.0E-00	AU116995.1	EST_HUMAN	Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) [LOC83484], mRNA
							Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) [LOC83484], mRNA
							AU116995 HEMBA1 Homo sapiens cDNA clone HEMBA1004765 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8660	22610	35707	1.37	2.0E-00	AU118985.1	EST_HUMAN	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004785 5'
11447	23214	38446	2.8	2.0E-00	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
270	13078	25720	4.55	1.0E-00	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
365	15516	25805	1.36	1.0E-00	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
368	15516	25805	1.43	1.0E-00	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
678	13454	26099	2.32	1.0E-00	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
679	13454	26099	2.32	1.0E-00	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
713	13487	26137	13.22	1.0E-00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
713	13487	26138	13.22	1.0E-00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1088	13846	26703	2.47	1.0E-00	4507828	NT	Homo sapiens Kruppel-like factor 7 (ubiquitous) (KLF7), mRNA
1283	14033	26703	5.56	1.0E-00	AF036154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1283	14033	26704	5.56	1.0E-00	AF036154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1662	14408		1.23	1.0E-00	BE379884.1	EST_HUMAN	60115953F2 NIH MGC 53 Homo sapiens cDNA clone IMAGE:3511118 5'
1895	14632	27342	3.33	1.0E-00	11420514	NT	Homo sapiens similar to SALL1 (sal (Drosophila))-like (LOC57167), mRNA
2658	15626	28271	6.46	1.0E-00	6005720	NT	Homo sapiens chromosome 8 open reading frame 2 (C8ORF2), mRNA
4388	17126	29758	1.29	1.0E-00	AF167340.1	NT	Homo sapiens soluble Interleukin 1 receptor accessory protein (IL1RAP) gene, exon 8, alternative exons 9 and complete cds, alternatively spliced
5589	18385	31295	2.58	1.0E-00	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
5746	18538	31460	0.86	1.0E-00	11426910	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
6473	19240	32240	0.57	1.0E-00	11419403	NT	Homo sapiens cytochrome P450, 51 (steroid 14-alpha-demethylase) (CYP51), mRNA
6973	19455	32475	0.66	1.0E-00	U61834.1	NT	Human retina-derived POU-domain factor-1 mRNA, complete cds
7204	19889	32965	0.64	1.0E-00	6008002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7571	20240	33345	2.77	1.0E-00	11426738	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 8 (SLC1A8), mRNA
8720	21412	34555	3.73	1.0E-00	11422086	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
9193	21863		0.96	1.0E-00	AF163864.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
9215	21894	35082	1.53	1.0E-00	11422109	NT	Homo sapiens CGI-15 protein (LOC51008), mRNA
9215	21894	35063	1.53	1.0E-00	11422109	NT	Homo sapiens CGI-16 protein (LOC51008), mRNA
10657	23253	36490	1.5	1.0E-00	R25898.1	EST_HUMAN	X044411.2 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:35477 5'
10987	23643	36896	1.76	1.0E-00	J04474.1	NT	Human branched chain alpha-keto acid dehydrogenase mRNA, 3' end
12580	24904	31001	1.49	1.0E-00	AB002059.1	NT	Homo sapiens DNA for Human P2X4, complete cds
12580	24904	31002	1.49	1.0E-00	AB002059.1	NT	Homo sapiens DNA for Human P2X4, complete cds
4172	16912	28542	6	8.0E-01	D12234.1	EST_HUMAN	HUM000381 Liver HepG2 cell line. Homo sapiens cDNA clone s381 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1427	14174	28859	1.08	7.0E-01	AF053768.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP80 mRNA, partial cds
8205	20898	34038	1.8	7.0E-01	11419234	NT	Homo sapiens makorin, ring finger protein, 1 (MKRN1), mRNA
10198	22846	36082	0.68	7.0E-01	AB04151.1	EST_HUMAN	CM-BT043-090289-075 BT043 Homo sapiens cDNA
3467	16223	28877	1.83	5.0E-01	AA702794.1	EST_HUMAN	z80504.s1 Soares fetal liver spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448015 3'
4480	17215	28840	11.73	5.0E-01	AU143539.1	EST_HUMAN	AU143539 Y78AA1 Homo sapiens cDNA clone Y78AA1002087 5'
4480	17215	28841	11.73	5.0E-01	AU143539.1	EST_HUMAN	AU143539 Y78AA1 Homo sapiens cDNA clone Y78AA1002087 5'
4757	17489	30116	0.97	5.0E-01	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
4757	17489	30117	0.97	5.0E-01	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
6519	16285	32289	1.25	5.0E-01	AB79895.1	EST_HUMAN	eu49f09.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518121 3' similar to SW:ASPG_FLAME Q47898 N4-(BETA-N-ACETYLGLUCOSAMINYL)-L-ASPARAGINASE PRECURSOR;
8105	20789	33831	1.2	5.0E-01	BF314682.1	EST_HUMAN	801901624F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130833 5'
8858	21350	34495	1.52	5.0E-01	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLOBYF08 3'
8858	21350	34498	1.52	5.0E-01	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLOBYF08 3'
12812	24919		1.74	5.0E-01	AI199568.1	EST_HUMAN	q970F1.x1 Soares fetal lung_NbHL10W Homo sapiens cDNA clone IMAGE:1744365 3' similar to cortactin MIR_b2 MIR MIR repetitive element;
3197	15660	28611	1.69	4.0E-01	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
3197	15660	28612	1.69	4.0E-01	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
10848	23530	36775	4.49	4.0E-01	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
12094	24598	31082	1.98	4.0E-01	M77894.1	EST_HUMAN	EST01579 Hippocampus, Striatum (cat. #836205) Homo sapiens cDNA clone HHCMC80 similar to Retrovirus-related gag polyprotein
12094	24598	31127	1.98	4.0E-01	M77894.1	EST_HUMAN	EST01579 Hippocampus, Striatum (cat. #836205) Homo sapiens cDNA clone HHCMC80 similar to Retrovirus-related gag polyprotein
1613	14360	27049	3.07	3.0E-01	11430193	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
1613	14360	27050	3.07	3.0E-01	11430193	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
3334	16094	28748	1.62	3.0E-01	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
3456	16211	28863	3.39	3.0E-01	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3456	16211	28864	3.39	3.0E-01	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3768	16520	29159	1.45	3.0E-01	AF084530.1	NT	Homo sapiens cyclin-D binding Myb-like protein mRNA, complete cds
4551	17286	28915	3.78	3.0E-01	M30638.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
5600	16395	31305	1.27	3.0E-01	11434984	NT	Homo sapiens epidermal secretory protein (19.5kD) (HE1), mRNA
6212	18987		2.48	3.0E-01	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
6488	16255	32258	5.82	3.0E-01	11497611	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6488	18255	32257	5.82	3.0E-01	11497011	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA
7538	20208	33306	4.97	3.0E-01	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
7538	20208	33307	4.97	3.0E-01	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
8659	21361	34508	2.58	3.0E-01	D16494.1	NT	Human mRNA for very low density lipoprotein receptor, complete cds
9188	21858	35023	2.83	3.0E-01	AB011166.1	NT	Homo sapiens mRNA for KIAA0504 protein, partial cds
10803	23486	36723	1.41	3.0E-01	AB032179.2	NT	Homo sapiens EHM2 mRNA, complete cds
11160	23827	37105	1.86	3.0E-01	AB028003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
11160	23827	37106	1.86	3.0E-01	AB028003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
12335	24749	31057	2	3.0E-01	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12687	17898	30489	4.35	3.0E-01	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
12687	17898	30490	4.35	3.0E-01	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
47	12876	25501	5.06	1.0E-01	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
1223	13973	26845	6.31	1.0E-01	AW449746.1	EST_HUMAN	UH-BI3-als-d-01-0-JL-st NCJ CGAP Sub5 Homo sapiens cDNA clone IMAGE:2735280 3'
5328	18131	30790	0.97	1.0E-01	11434402	NT	Homo sapiens hypothetical protein PRO1855 (PRO1855), mRNA
6743	19577	32810	2.26	1.0E-01	BF348182.1	EST_HUMAN	602022088F1 NCJ CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4157804 5'
6743	19577	32811	2.26	1.0E-01	BF348182.1	EST_HUMAN	602022088F1 NCJ CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4157804 5'
12245	25340		1.35	1.0E-01	H18212.1	EST_HUMAN	ym30e03.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:49587 5'
1219	13970	26639	9.06	9.0E-02	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
1219	13970	26840	9.06	9.0E-02	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
5120	17836	30454	0.8	9.0E-02	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
5376	18176	30897	4.86	9.0E-02	J03007.1	NT	Human Na ⁺ /K ⁺ ATPase alpha-subunit mRNA, partial cds
5518	18316	31217	2.83	9.0E-02	11427149	NT	Homo sapiens hypothetical protein FLJ20260 (FLJ20260), mRNA
6362	19132	32127	4.03	9.0E-02	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
7756	20452	33576	7.17	9.0E-02	AJ250568.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
7756	20452	33577	7.17	9.0E-02	AJ250568.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
8272	20966	34107	0.92	9.0E-02	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
8272	20966	34108	0.92	9.0E-02	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
9174	21844	35010	1.95	9.0E-02	11422086	NT	Homo sapiens brefeldin A-initiated guanine nucleotide-exchange protein 2 (BIG2), mRNA
11161	23828		1.95	9.0E-02	7706696	NT	Homo sapiens RNIB6 (RNIB6), mRNA
91	12917	25554	2.25	8.0E-02	W26367.1	EST_HUMAN	26f3 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
279	13086	25728	3.29	8.0E-02	BE386363.1	EST_HUMAN	601273513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614667 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5041	17760	30374	0.98	8.0E-02	AW15751.1	EST_HUMAN	al83108.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to
5308	18113	30771	0.65	8.0E-02	AB046820.1	NT	TR:060302 O60302 KIAA0555 PROTEIN, contains element MER22 repetitive element;
5411	18210	30818	0.97	8.0E-02	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete
6451	19219	32217	1.31	8.0E-02	AJ000978.1	NT	cds
6465	19223	32222	0.92	8.0E-02	AF179428.1	NT	Homo sapiens MCP-4 gene
7890	20685		0.55	8.0E-02	11416901	NT	Homo sapiens DNA polymerase zeta catalytic subunit variant 1 (REV3L) mRNA, complete cds
8324	21017	34152	3.91	8.0E-02	L04109.1	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
8324	21017	34153	3.91	8.0E-02	L04109.1	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
8422	21115	34253	0.58	8.0E-02	11428569	NT	Human lens membrane protein (mp19) gene, exon 11
8860	21681	34801	2.82	8.0E-02	AB014511.1	NT	Human lens membrane protein (mp19) gene, exon 11
8825	22573	35771	1.18	8.0E-02	Y13829.1	NT	Homo sapiens transcription termination factor, RNA polymerase II (TTF2), mRNA
10707	23397	36636	3.2	8.0E-02	AF074393.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
11333	24024	37329	1.61	8.0E-02	4503340	NT	Homo sapiens mRNA for MBNL protein
23	12851	25466	1.82	7.0E-02	AB031007.1	NT	Homo sapiens nuclear mitogen- and stress-activated protein kinase-1 (MSK1) mRNA, complete cds
64	12892	25526	1.01	7.0E-02	M60676.1	NT	Homo sapiens dihydropyrimidinase S-succinyltransferase (E2 component of 2-oxo-glutarate complex) (DLST)
230	15538	25680	0.87	7.0E-02	AB018301.1	NT	miRNA
230	15538	25681	0.87	7.0E-02	AB018301.1	NT	Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
577	13357		1.34	7.0E-02	AF007822.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1257	14006	26676	1.99	7.0E-02	4502384	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
2184	14913	27645	2.27	7.0E-02	5031570	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
2184	14913	27646	2.27	7.0E-02	5031570	NT	Homo sapiens cytoplasmic Sepsis truncated isoform mRNA, complete cds
2568	15282	28020	1.46	7.0E-02	AF167706.1	NT	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA
2726	15435	28171	2.2	7.0E-02	6005738	NT	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA
2757	15462	28205	1.23	7.0E-02	AB031007.1	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
3340	17877	28750	1.06	7.0E-02	4507500	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
3340	17877	28751	1.06	7.0E-02	4507500	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
4547	17282	29912	2.59	7.0E-02	S71824.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
4547	17282	29913	2.59	7.0E-02	S71824.1	NT	Homo sapiens NRAS-related gene (D1S155E), mRNA
							Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
							Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
							Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
							Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
							N-CAM=145 kDa neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2980]
							[nt]
							N-CAM=145 kDa neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2980]
							[nt]

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4944	17671	30280	0.98	7.0E-02	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5180	17989	30504	6.05	7.0E-02	AA446206.1	EST_HUMAN	z668d12.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781175 5'
1592	14328		1.29	5.0E-02	BE90882.1	EST_HUMAN	601283012F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605018 5'
2768	15473	28215	1.6	3.0E-02	BE909714.1	EST_HUMAN	601501242F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3602839 5'
5786	18577	31508	2.6	3.0E-02	AA378336.1	EST_HUMAN	EST01020 Synovial sarcoma Homo sapiens cDNA 5' end similar to ribosomal protein S13
10684	23355	36594	2.72	3.0E-02	X15804.1	NT	Human mRNA for alpha-actinin
10684	23355	36595	2.72	3.0E-02	X15804.1	NT	Human mRNA for alpha-actinin
24	12852	25467	1.68	2.0E-02	4501898	NT	Homo sapiens activin A receptor, type IIB (ACVR2B) mRNA
174	12986	25625	3.57	2.0E-02	11422946	NT	Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
174	12986	25626	3.57	2.0E-02	11422946	NT	Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
732	13506	26162	1.33	2.0E-02	BE289190.1	EST_HUMAN	Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
732	13506	26163	1.33	2.0E-02	BE289190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
1709	14482		2.22	2.0E-02	S78653.1	NT	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
							int-mes-related [human, Genbank, 2416 nt]
1929	14685	27378	2.36	2.0E-02	A1818119.1	EST_HUMAN	wk27d07.x1 NC1 CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR-Q12844
1929	14685	27378	2.36	2.0E-02	A1818119.1	EST_HUMAN	Q12844 BREAKPOINT CLUSTER REGION PROTEIN ;
2041	14776	27504	5.58	2.0E-02	4506860	NT	wk27d07.x1 NC1 CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR-Q12844
2684	15374	28113	19.2	2.0E-02	6912457	NT	Q12844 BREAKPOINT CLUSTER REGION PROTEIN ;
3600	16353	28992	2.61	2.0E-02	AF231919.1	NT	Homo sapiens syndecan 4 (amphiglycan, ryudocan) (SDC4) mRNA
3600	16353	28993	2.61	2.0E-02	AF231919.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
3674	16427	28088	5.57	2.0E-02	5803180	NT	Homo sapiens chromosome 21 unknown mRNA
4256	16897	28628	1.23	2.0E-02	M10976.1	NT	Homo sapiens stress-induced-phosphoprotein 1 (Hsp70/Hsp80-organizing protein) (STIP1), mRNA
4836	17684		2.51	2.0E-02	AL040437.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
5673	18468	31363	0.84	2.0E-02	AF016535.1	NT	DKFZp434C0414.1_1 434 (synonym: hssc3) Homo sapiens cDNA clone DKFZp434C0414 5'
6208	18884		0.6	2.0E-02	4504756	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
6517	19282	32286	3.03	2.0E-02	AB028891.1	NT	Homo sapiens integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) (ITGAL) mRNA
7364	20045		0.81	2.0E-02	U67780.1	NT	Homo sapiens mRNA for KIAA1088 protein, partial cds
7364	20045		0.78	2.0E-02	U67780.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
8754	21446	34594	1.89	2.0E-02	AW340174.1	EST_HUMAN	Human NPY Y1-like receptor pseudogene mRNA, complete cds
10659	23350	36587	4.93	2.0E-02	11434900	NT	Ind02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2808371 3' similar to TR-O0271
							O02711 PRO-POLYDUTASE POLYPROTEIN ;
							Homo sapiens thyroid stimulating hormone receptor (TSHR), mRNA

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Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10330	23610	36859	1.48	2.0E-02	11434759	NT	Homo sapiens zinc finger protein 198 (ZNF198), mRNA
10978	23653	36908	2.54	2.0E-02	5803103	NT	Homo sapiens male-specific lethal-3 (Drosophila)-like 1 (MSL3L1), mRNA
12439	24809	31046	2.69	2.0E-02	AB028016.1	NT	Homo sapiens mRNA for KIAA1053 protein, partial cds
12897	15374	28113	2.51	2.0E-02	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1842	14580	27294	1.13	1.0E-02	R78078.1	EST_HUMAN	y80e08.l1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'
1842	14580	27295	1.13	1.0E-02	R78078.1	EST_HUMAN	y80e08.l1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'
2066	14798	27525	8.83	1.0E-02	4508688	NT	Homo sapiens ribosomal protein, large, P1 (RPLP1), mRNA
8145	20830	33971	1.29	1.0E-02	BE438625.1	EST_HUMAN	HTM1-288F HTM1 Homo sapiens cDNA
9082	21751	34910	3.82	1.0E-02	AI980366.1	EST_HUMAN	tg01b02.x1 NCL CGAP CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ;contains Alu repetitive element;contains element MER17 repetitive element;
9082	21751	34911	3.82	1.0E-02	AI980366.1	EST_HUMAN	tg01b02.x1 NCL CGAP CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ;contains Alu repetitive element;contains element MER17 repetitive element;
2023	14768	27487	3	9.0E-03	AU121081.1	EST_HUMAN	AU121081 MAMMA1 Homo sapiens cDNA clone MAMMA1000738 5'
2035	14770		5.48	9.0E-03	AA316723.1	EST_HUMAN	EST189414 HCC cell line (metastasis to liver in mouse) // Homo sapiens cDNA 5' end similar to ribosomal protein L28 Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
2653	15363		1.45	9.0E-03	AF223391.1	NT	601281867F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3903832 5'
3602	16355	28395	1.11	9.0E-03	BE388571.1	EST_HUMAN	Homo sapiens ribosomal protein L10a (RPL10A), mRNA
11645	24242		9.71	9.0E-03	11418528	NT	UIH-B10-eah-h-06-Q-U1.s1 NCL CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709371 3'
6351	19121	32112	0.58	8.0E-03	AW014042.1	EST_HUMAN	UIH-B10-eah-h-06-Q-U1.s1 NCL CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709371 3'
6351	19121	32113	0.58	8.0E-03	AW014042.1	EST_HUMAN	601460521F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863908 5'
6496	19262	32263	2.51	8.0E-03	BF036364.1	EST_HUMAN	Homo sapiens chromosome 21 unknown mRNA
239	13048	25687	9.92	7.0E-03	AF231019.1	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
3073	15839	28482	0.94	6.0E-03	11526176	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
6581	19344	32358	1.02	6.0E-03	AB033083.1	NT	Homo sapiens PTH-responsive osteosarcoma B1 protein (B1) mRNA, complete cds
6817	10478	32501	1.12	6.0E-03	AF095771.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
1359	14107	28782	3.51	5.0E-03	AB014511.1	NT	wc09c08.x1 NCL CGAP_P128 Homo sapiens cDNA clone IMAGE:2314670 3'
1386	14133	28807	7.28	5.0E-03	AI674184.1	EST_HUMAN	wc09c08.x1 NCL CGAP_P128 Homo sapiens cDNA clone IMAGE:2314670 3'
1988	14133	28808	7.28	5.0E-03	AI674184.1	EST_HUMAN	Human skeletal muscle 1.3 kb mRNA for tropomyosin
3227	15980	28643	2.98	5.0E-03	X04201.1	NT	Human somatic cytochrome c (HC1) processed pseudogene, complete cds
5710	18503	31425	1.01	6.0E-03	M2878.1	NT	

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6018	18789		1.02	5.0E-03	AF045555.1	NT	Homo sapiens wbscr1 (WBSOR1) and wbscr5 (WBSOR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
7614	20280	33398	3.6	5.0E-03	AF087136.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 11, complete cds and alternatively spliced product
8503	21195	34339	1	5.0E-03	4557528	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8503	21195	34339	1	5.0E-03	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8623	22176	35360	2.16	5.0E-03	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9707	22358	35554	1.25	5.0E-03	5032156	NT	Homo sapiens TAR (HIV) RNA-binding protein 1 (TARBP1) mRNA
9970	22618	35821	1.9	5.0E-03	AF068313.2	NT	Homo sapiens WSB1 protein (WSB1) mRNA, complete cds
10727	23416	36866	2.26	5.0E-03	11439699	NT	Homo sapiens nucleobindin 2 (NUCB2), mRNA
12343	25052	30959	2.15	5.0E-03	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
12805	25052	30959	1.44	5.0E-03	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
88	12812		6.52	4.0E-03	AA458983.1	EST_HUMAN	z50e08.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:795688 3' similar to SW:GLPA_RAT P37987 CALPONIN, ACIDIC ISOFORM
432	13218	25883	1.39	4.0E-03	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
432	13218	25884	1.39	4.0E-03	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
755	13527	26188	1.67	4.0E-03	7657454	NT	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
755	13527	26187	1.67	4.0E-03	7657454	NT	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
1160	13914	26577	1.53	4.0E-03	8023668	NT	Homo sapiens hypothetical protein FLJ20731 (FLJ20731), mRNA
1970	14703	27424	4.3	4.0E-03	AF047677.1	NT	Homo sapiens dystrophin (DMD) gene, deletion breakpoints 1-3 in intron 5
2241	14969	27707	0.88	4.0E-03	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
2397	15118	27855	1.65	4.0E-03	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
3653	16308	28958	0.73	4.0E-03	7705386	NT	Homo sapiens tumor antigen SLP-8p (HCC8), mRNA
4026	16771	29403	1.67	4.0E-03	4504654	NT	Homo sapiens interleukin 18 receptor 1 (IL18R1) mRNA
5557	18354	31264	4.9	4.0E-03	T46964.1	EST_HUMAN	y64c12.1 Stratagene liver (#637224) Homo sapiens cDNA clone IMAGE:78838 5' similar to similar to SP-A44391 A44391 SERUM RESPONSE ELEMENT-BINDING PROTEIN SRE-ZBP - HUMAN
11078	23748	37023	6.17	4.0E-03	AV692051.1	EST_HUMAN	AV692051 GK-C Homo sapiens cDNA clone GKCDRF07 5'
3643	16396	29035	7.35	3.0E-03	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332038 5'
3643	16396	29036	7.35	3.0E-03	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332038 5'
4210	16951		1.31	3.0E-03	AF225896.1	NT	Homo sapiens tensin mRNA, complete cds
5597	18491	31412	0.79	3.0E-03	AI553853.1	EST_HUMAN	tn29g03.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2169076 3'
5597	18491	31413	0.79	3.0E-03	AI553853.1	EST_HUMAN	tn29g03.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2169076 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6468	19235	32236	1.21	3.0E-03	11426182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
10703	23394	36031	4.27	3.0E-03	A1824829.1	EST_HUMAN	w602605.x1 NCI_C3GAP_G08 Homo sapiens cDNA clone IMAGE:23044489 3'
185	12908	25637	7.51	2.0E-03	AB015610.1	NT	Chlorococcus ethiops mRNA for ribosomal protein S4X, complete cds
185	12938	25638	7.51	2.0E-03	AB015610.1	NT	Chlorococcus ethiops mRNA for ribosomal protein S4X, complete cds
315	13119	25758	9.36	2.0E-03	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
316	13119	25758	9.48	2.0E-03	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1610	14357	27046	1.33	2.0E-03	AF225686.1	NT	Homo sapiens tensin mRNA, complete cds
2126	14557	27587	1.33	2.0E-03	U40783.1	NT	Human Ck-associated RS cyclophilin CARS-Cyp mRNA, complete cds
2490	15207	27949	1.66	2.0E-03	BE252982.1	EST_HUMAN	601117686F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3358220 5'
5332	18135	30784	5.42	2.0E-03	AW984385.1	EST_HUMAN	EST378458 MAGE resequences, MAGH Homo sapiens cDNA
5342	18145	30824	0.66	2.0E-03	4756153	NT	Homo sapiens deafness, autosomal dominant 5 (DFNA5), mRNA
5455	18254		1.04	2.0E-03	BF351459.1	EST_HUMAN	QV3-HT0513-260300-128-H04-HT0513 Homo sapiens cDNA
5550	18347	31256	1.13	2.0E-03	11430039	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
5565	18362	31270	0.65	2.0E-03	U74313.1	EST_HUMAN	HSJ74313 Human chromosome 14 Homo sapiens cDNA clone 1-86
6584	19347		1.1	2.0E-03	AW50202.1	EST_HUMAN	UIHF-BND-ale-g-09-0-UI-1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076328 5'
11014	23688	36046	1.27	2.0E-03	AV721846.1	EST_HUMAN	AV721846 HTB Homo sapiens cDNA clone HTBAUB04 5'
11014	23688	36947	1.27	2.0E-03	AV721846.1	EST_HUMAN	AV721846 HTB Homo sapiens cDNA clone HTBAUB04 5'
12283	24686		2.64	2.0E-03	AA126735.1	EST_HUMAN	z126c10.s1 Soares pregnant_uterus_NIH/PU Homo sapiens cDNA clone IMAGE:503346 3'
12314	24736		2.17	2.0E-03	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
12571	24899		10.79	2.0E-03	BF035327.1	EST_HUMAN	601453531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862088 5'
101	12927	25564	2.28	1.0E-03	AF238997.1	NT	Homo sapiens CTR1 pseudogene
101	12927	25565	2.28	1.0E-03	AF238997.1	NT	Homo sapiens CTR1 pseudogene
505	13289	25623	4.25	1.0E-03	7657016	NT	Homo sapiens hypothetical protein (D3326E19.C1.1), mRNA
586	13368	25994	4.57	1.0E-03	A1146755.1	EST_HUMAN	cy64b08.x1 NCI_CGAP_CL11 Homo sapiens cDNA clone IMAGE:1672503 3' similar to TR-Q62384 Q62384
852	13622	26292	8.91	1.0E-03	D87675.1	NT	ZINC FINGER PROTEIN.;
1144	13689	26560	2.9	1.0E-03	4503872	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
1215	13965	26632	7.65	1.0E-03	8923270	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD67, mRNA
1215	13965	26633	7.65	1.0E-03	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1322	14071	26744	1.5	1.0E-03	AB046783.1	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1324	14073	26746	0.99	1.0E-03	AF167706.1	NT	Homo sapiens mRNA for KIAA1563 protein, partial cds
2337	15061	27798	1.33	1.0E-03	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HLELO1) mRNA, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2466	15184	27924	1.7	1.0E-03	AF055006.1	NT	Homo sapiens MHC class 1 region
2511	15228		0.96	1.0E-03	AL137200.1	NT	Novel human gene mapping to chromosome 1
2825	14022	26689	1.47	1.0E-03	BE297369.1	EST_HUMAN	601177686F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532865 5'
2825	14022	26690	1.47	1.0E-03	BE297369.1	EST_HUMAN	601177686F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532865 5'
2834	15700	28349	7.48	1.0E-03	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
3210	15073		1.27	1.0E-03	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HLEO1) mRNA, complete cds
4395	17132	29763	2.6	1.0E-03	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5479	18278	31173	2.38	1.0E-03	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5479	18278	31174	2.38	1.0E-03	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5578	18472	31389	0.96	1.0E-03	AF227138.1	NT	Homo sapiens candidate taste receptor T2R14 gene, complete cds
5825	18614	31546	10.32	1.0E-03	4557792	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1) mRNA
6104	18882	31850	1.4	1.0E-03	7662241	NT	Homo sapiens KIAA0672 gene product (KIAA0672), mRNA
6694	19611	32650	2.01	1.0E-03	11431560	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7150	19837	32907	3.49	1.0E-03	D42072.1	NT	Human mRNA for NF-1 N-isoform-exon11, complete cds
8158	20862	33684	2.54	1.0E-03	AB037632.1	NT	Human mRNA for KIAA1411 protein, partial cds
8441	21133	34269	1.2	1.0E-03	Y10183.1	NT	H. sapiens mRNA for MEMD protein
8547	21239	34362	1.38	1.0E-03	AF162032.1	NT	Homo sapiens protein kinase inhibitor gamma (PKIG) mRNA, complete cds
8352	20423	33542	1.79	1.0E-03	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
9356	20427	33546	1.26	1.0E-03	AF081395.1	NT	Homo sapiens Trlo isoform mRNA, complete cds
9488	22141	35319	8.29	1.0E-03	X19474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9488	22141	35320	8.29	1.0E-03	X19474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9625	22278	35467	0.79	1.0E-03	ALD49801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
10045	22693	35910	0.82	1.0E-03	11433646	NT	Novel human gene mapping to chromosome 13 (RYR3), mRNA
12487	24846		1.84	1.0E-03	AJ230125.1	NT	Homo sapiens GGT1 gene, exon 1
12568	24896		2.84	1.0E-03	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12739	25391		1.49	1.0E-03	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
10492	23138		1.03	8.0E-04	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3944	16694	28333	1.63	6.0E-04	AF142482.1	NT	Homo sapiens transcription enhancer factor-5 mRNA, complete cds
5283	18088	30747	4.23	5.0E-04	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5283	18088	30748	4.23	5.0E-04	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5957	18739	31698	4.22	5.0E-04	AA722434.1	EST_HUMAN	2987906.at Soares_fetal_heart_NH19W Homo sapiens cDNA clone IMAGE:409594 3'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6810	10848	32693	1.29	5.0E-04	AI015800.1	EST_HUMAN	cd83405.s1 Soares fetal fetus Nb21F8 9w Homo sapiens cDNA clone IMAGE:1623368 3'
8537	21229	34371	1.11	5.0E-04	BF529115.1	EST_HUMAN	602042163F1 NCJ CGAP Bim67 Homo sapiens cDNA clone IMAGE:4180023 5'
12209	25394	30619	9.99	5.0E-04	T88388.1	EST_HUMAN	y88b04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:116239 3'
12756	25017		1.5	5.0E-04	D25217.2	NT	Homo sapiens mRNA for KIAA0027 protein, partial cds
12761	25021		1.86	5.0E-04	9558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA
1834	14573		2.64	4.0E-04	L05094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
2662	16372	28111	0.92	4.0E-04	4509008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3661	18414	29053	1.38	4.0E-04	AW197851.1	EST_HUMAN	x189f12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'
3661	18414	29054	1.38	4.0E-04	AW197851.1	EST_HUMAN	x189f12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'
4689	17403	30038	2.87	4.0E-04	AI591312.1	EST_HUMAN	hw11f10.x1 NCJ CGAP Bim52 Homo sapiens cDNA clone IMAGE:2259403 3' similar to TR-Q16265 Q16265 PROTEIN TYROSINE PHOSPHATASE;
6376	19145	32143	1.82	4.0E-04	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6376	19145	32144	1.82	4.0E-04	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6812	19473		1.16	4.0E-04	L27386.1	NT	Homo sapiens huntingtin (HD) gene, exon 37
11431	23198	36429	1.5	4.0E-04	11545792	NT	Homo sapiens hypothetical protein FLJ12455 (FLJ12455), mRNA
597	13375	26005	1.44	3.0E-04	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila esh2 gene
704	13479	26127	0.88	3.0E-04	4502508	NT	Homo sapiens complement component 5 (C5) mRNA
1733	14476	27173	1.19	3.0E-04	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1733	14475	27174	1.19	3.0E-04	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1765	14507	27208	2.61	3.0E-04	4557568	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2073	14805	27534	1.27	3.0E-04	11427779	NT	Homo sapiens hepatic leukemia factor (HLF), mRNA
2073	14805	27535	1.27	3.0E-04	11427779	NT	Homo sapiens hepatic leukemia factor (HLF), mRNA
4186	16908	29534	0.83	3.0E-04	AA464805.1	EST_HUMAN	zw63g08.l1 Soares fetal fetus Nb2HF8 9w Homo sapiens cDNA clone IMAGE:774782 6'
5595	18390	31301	3.41	3.0E-04	11496288	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
6059	18639	31800	1.33	3.0E-04	AB011636.1	NT	Homo sapiens zinc finger protein 277 (ZNF277), partial cds
6360	19130	32125	4	3.0E-04	11526228	NT	Homo sapiens chromosome 21 open reading frame 18 (C21ORF18), mRNA
7606	20359	33473	1.7	3.0E-04	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
8098	20792	33923	1.18	3.0E-04	AF152309.1	NT	Homo sapiens protocadherin alpha 13 (PCDH-alpha13) mRNA, complete cds
9486	21178	34322	4.35	3.0E-04	AB014578.1	NT	Homo sapiens mRNA for KIAA0079 protein, partial cds
9492	22145	35326	5.23	3.0E-04	AF087942.1	NT	Homo sapiens glycogenin-1L mRNA, complete cds
11043	23713	36983	3.26	3.0E-04	4757821	NT	Homo sapiens axonal transport of synaptic vesicles (ATSV) mRNA
11679	24274	37596	1.94	3.0E-04	U26711.1	NT	Human cbl-b truncated form 1 lacking leucine zipper mRNA, complete cds

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9653	22305	35501	0.7	2.0E-04	AJ910393.1	EST_HUMAN	w30h11.x1 NCI_CGAP_Cot16 Homo sapiens cDNA clone IMAGE:2391813 3'
9653	22305	35502	0.7	2.0E-04	AJ910393.1	EST_HUMAN	w30h11.x1 NCI_CGAP_Cot16 Homo sapiens cDNA clone IMAGE:2391813 3'
144	12859	25601	1.94	1.0E-04	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3088	15851	28492	2.07	1.0E-04	BE253433.1	EST_HUMAN	601111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352558 5'
3088	15851	28493	2.07	1.0E-04	BE253433.1	EST_HUMAN	601111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352558 5'
4328	17065	29694	1.7	1.0E-04	9506892	NT	Homo sapiens hypothetical protein (FLJ20746), mRNA
6982	18763	31727	0.84	1.0E-04	AE000269.1	NT	Escherichia coli K-12 MG1655 section 159 of 400 of the complete genome
6173	18950	31922	0.73	1.0E-04	AL040518.1	EST_HUMAN	DKFZp434G0314.J1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G0314 5'
6182	18958	31933	0.72	1.0E-04	H08270.1	EST_HUMAN	y87f02.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:45053 5'
6428	19194	32190	0.58	1.0E-04	AV725692.1	EST_HUMAN	AV725692 HTC Homo sapiens cDNA clone HICBER05 5'
8012	20707	33836	0.63	1.0E-04	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8012	20707	33837	0.63	1.0E-04	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9155	21888	35054	2.76	1.0E-04	11428710	NT	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA
9687	22339	35533	2.04	1.0E-04	BE780478.1	EST_HUMAN	601468748F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872088 5'
11000	23673	36829	3.08	1.0E-04	U65590.1	NT	Homo sapiens IL-1 receptor antagonist IL-1Ra (IL-1RN) gene, alternatively spliced forms, complete cds
11288	23949	37245	2.82	1.0E-04	AJ27244.1	EST_HUMAN	ap22a02.x1 Schiller oligodendrogloma Homo sapiens cDNA clone IMAGE:1958122 3' similar to TR:Q62846
11754	24345	37675	1.72	1.0E-04	11418871	NT	Q62845 NEURAL CELL ADHESION PROTEIN BIG-2 PRECURSOR ;
12330	12659	25601	1.45	1.0E-04	BE295714.1	EST_HUMAN	Homo sapiens KIAA0164 gene product (KIAA0164), mRNA
12608	12659	25601	1.51	1.0E-04	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
1459	14206	26892	1.93	9.0E-05	AF027302.1	NT	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3153	15916	28561	1.45	9.0E-05	7662027	NT	Homo sapiens TNF-alpha stimulated ABC protein (ABC50) mRNA, complete cds
3153	15916	28562	1.45	9.0E-05	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5320	18123	30781	1.33	9.0E-05	X82569.1	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5320	18123	30782	1.33	9.0E-05	X82569.1	NT	Musculus glyt1 gene (exons 1c and 2)
8150	20844	33074	1.77	9.0E-05	AF274753.1	NT	Musculus glyt1 gene (exons 1c and 2)
4499	17235	29868	3.18	8.0E-05	AJ700998.1	EST_HUMAN	Musculus glyt1 gene (exons 1c and 2)
4499	17235	29867	3.18	8.0E-05	AJ700998.1	EST_HUMAN	Musculus glyt1 gene (exons 1c and 2)
6949	19549	32579	0.76	8.0E-05	11419376	NT	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
7141	19828	32887	1.76	8.0E-05	11425523	NT	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
7141	19828	32898	1.76	8.0E-05	11425523	NT	we09e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340806 3' similar to gb:K00558
							TUBULIN ALPHA-1 CHAIN (HUMAN);
							we09e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340806 3' similar to gb:K00558
							TUBULIN ALPHA-1 CHAIN (HUMAN);
							we09e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340806 3' similar to gb:K00558
							TUBULIN ALPHA-1 CHAIN (HUMAN);
							Homo sapiens KIAA0163 gene product (KIAA0163), mRNA
							Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
							Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA

Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8097	20791	33922	1.97	8.0E-05	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
9265	22019	35167	2	8.0E-05	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
9265	22019	35188	2	8.0E-05	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
9748	22389	35604	3.1	8.0E-05	5174844	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PROD-H) mRNA
9779	22430		2.94	8.0E-05	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
10135	22763	35994	0.8	8.0E-05	9846523	NT	Homo sapiens early growth response 2 (Krox-20 (Drosophila) homolog) (EGR2), mRNA
10613	23307	36546	1.3	8.0E-05	AF112152.1	NT	Homo sapiens HCF-binding transcription factor Zhangfei (ZF), mRNA
11468	24069	37377	1.86	8.0E-05	10884024	NT	zua84d01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:744649 3' similar to contains L1.11 L1 repetitive element:
12535	24879		12.4	8.0E-05	AA629058.1	EST_HUMAN	Homo sapiens DNA for amyloid precursor protein, complete cds
269	13077	25718	32.81	7.0E-05	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
269	13077	25719	32.81	7.0E-05	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4333	17072	29701	5.18	7.0E-05	M85708.1	NT	Homo sapiens Ly-6-like protein (CD58) mRNA, complete cds
4380	17117		1.3	7.0E-05	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21CQ46
9117	21805	34971	1.31	4.0E-05	BE439626.1	EST_HUMAN	HTM1-289F HTM1 Homo sapiens cDNA
5358	18159	30842	1.58	3.0E-05	BF526041.1	EST_HUMAN	602071146F1 NCL_CGAP_Bnf64 Homo sapiens cDNA clone IMAGE:4214147 5'
5588	25071	31294	0.83	3.0E-05	4603354	NT	Homo sapiens dedicator of cyto-kinesis 1 (DOCK1) mRNA
7268	19952	33027	1.51	3.0E-05	AW958121.1	EST_HUMAN	EST370191 IMAGE resequences, IMAGE Homo sapiens cDNA
7268	19952	33028	1.51	3.0E-05	AW958121.1	EST_HUMAN	EST370191 IMAGE resequences, IMAGE Homo sapiens cDNA
8278	20972	34113	0.55	3.0E-05	AW157233.1	EST_HUMAN	au63b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783799 3' similar to TR:060463.060463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1]:
8278	20972	34114	0.55	3.0E-05	AW157233.1	EST_HUMAN	au63b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783799 3' similar to TR:060463.060463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1]:
9255	21934	35107	1.89	3.0E-05	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9255	21934	35108	1.89	3.0E-05	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9647	22299	35495	0.73	3.0E-05	BF213446.1	EST_HUMAN	601845212F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4070451 5'
10782	23475	36716	1.49	3.0E-05	R83190.1	EST_HUMAN	yp87/g11.1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:194468 5'
1639	14385	27072	2.31	2.0E-05	7682027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1639	14385	27073	2.31	2.0E-05	7682027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1639	14385			2.0E-05	7682027	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3), mRNA
1934	14669	27384	2.51	2.0E-05	4507512	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1937	14672	27388	1.92	2.0E-05	BE393873.1	EST_HUMAN	601312161F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658982 5'
2426	15147	27880	2.22	2.0E-05	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
2426	15147	27881	2.22	2.0E-05	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2468	15183	27825	3.28	2.0E-05	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2517	15233	27973	1.85	2.0E-05	4758423	NT	Homo sapiens glycine cleavage system protein H (aminomethyl carrier) (GCSH) mRNA
3155	15918	28584	1.93	2.0E-05	AF015452.1	NT	Homo sapiens Usurpin-gamma mRNA, complete cds
3552	16307	28958	3.07	2.0E-05	7705900	NT	Homo sapiens Unconventional myosin-15 (LOC51168), mRNA
3552	16307	28957	3.07	2.0E-05	7705900	NT	Homo sapiens Unconventional myosin-15 (LOC51168), mRNA
3605	16358	28998	1.29	2.0E-05	AB037807.1	NT	Homo sapiens mRNA for KIAA1388 protein, partial cds
3732	18485	29122	0.68	2.0E-05	AL290284.1	EST_HUMAN	qin01c02.x1 Soares_NihMPu_S1 Homo sapiens cDNA clone IMAGE:1880546 3' similar to WP:723G7.4 CE03705;
4328	17067	29695	1.32	2.0E-05	7657185	NT	Homo sapiens hypothetical protein (HS322B1A), mRNA
4978	17701	30308	2.72	2.0E-05	7681979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5392	18182	30884	4.21	2.0E-05	7705764	NT	Homo sapiens GGI-48 protein (LOC51098), mRNA
5392	18182	30885	4.21	2.0E-05	7705764	NT	Homo sapiens GGI-48 protein (LOC51098), mRNA
5611	18407	31319	1.27	2.0E-05	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5611	18407	31320	1.27	2.0E-05	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5651	18448	31360	0.7	2.0E-05	11525883	NT	Homo sapiens membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) (MPP3), mRNA
6051	18831	31784	5.04	2.0E-05	M59724.1	NT	Human muscle-type phosphofructokinase (PFK-M) gene, exon 7
6358	19128	32122	1.16	2.0E-05	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6358	19128	32123	1.16	2.0E-05	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6476	19243	32243	2.45	2.0E-05	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6568	19583	32617	1.92	2.0E-05	11435773	NT	Homo sapiens huntingtin (Huntington disease) (HD), mRNA
8041	21731	34886	1.08	2.0E-05	11421795	NT	Homo sapiens fibronectin II (RPN2), mRNA
10280	22928	36142	0.84	2.0E-05	11434330	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
10624	23317	36557	2.46	2.0E-05	4757853	NT	Homo sapiens bone morphogenetic protein receptor, type IA (BMPRIA) mRNA
11700	24295	37620	3.02	2.0E-05	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11700	24295	37621	3.02	2.0E-05	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12289	24724	31055	2.3	2.0E-05	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12698	24980	30894	4.68	2.0E-05	11418184	NT	Homo sapiens adenylosuccinate lyase (ADSL), mRNA
5527	18325	31226	8.41	1.0E-05	AA284651.1	EST_HUMAN	z23h04.1 Soares ovary tumor NihHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to TR:G1067084 G1067084 F55H2.6;
5527	18325	31227	8.41	1.0E-05	AA284651.1	EST_HUMAN	z23h04.1 Soares ovary tumor NihHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to TR:G1067084 G1067084 F55H2.6;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7414	20091	33175	4.3	1.0E-06	BF370000.1	EST_HUMAN	RC8-FN0019-290800-011-G11 FN0019 Homo sapiens cDNA
7414	20091	33176	4.3	1.0E-06	BF370000.1	EST_HUMAN	RC8-FN0019-290800-011-G11 FN0018 Homo sapiens cDNA
8094	20788	33920	1.49	9.0E-06	BE897259.1	EST_HUMAN	601437232F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922423 5'
5424	18223		2.77	8.0E-06	AW836047.1	EST_HUMAN	PMO-LT0019-090300-002-409 LT0019 Homo sapiens cDNA
3889	16639	28278	0.74	7.0E-06	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
3476	16232	28886	20.13	6.0E-06	M28873.1	NT	Human glyceraldehyde-3-phosphate dehydrogenase pseudogene 5' end
5552	18349	31258	0.74	6.0E-06	11422842	NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminide alpha 2,3-sialyltransferase) (SIAT6), mRNA
11534	24134	37439	3.36	6.0E-06	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11534	24134	37440	3.36	6.0E-06	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11584	24183	37408	2.05	6.0E-06	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
11769	24360	37692	1.83	6.0E-06	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11769	24360	37693	1.83	6.0E-06	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
312	13116	25754	2.74	5.0E-06	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
822	13562	26260	4.08	5.0E-06	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
822	13562	26261	4.08	5.0E-06	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
2624	16336		1.43	5.0E-06	11416767	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
4846	17576		1.39	5.0E-06	X60812.1	NT	H. sapiens DNA for monoamine oxidase type A (7) (partial)
6553	19318	32324	1.15	6.0E-06	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6684	19601	32639	5.18	5.0E-06	11424399	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6684	19601	32840	5.18	5.0E-06	11424399	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6923	19699	32706	0.71	5.0E-06	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
7415	20092	33177	1.98	5.0E-06	AB024334.1	NT	Homo sapiens mRNA for 14-3-3gamma, complete cds
8005	20700	33828	1.35	5.0E-06	M88347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
8005	20700	33829	1.35	5.0E-06	M88347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
11793	24383	37716	1.4	5.0E-06	7661973	NT	Homo sapiens KIAA0175 gene product (KIAA0175), mRNA
4168	16908		12.32	3.0E-06	H68656.1	EST_HUMAN	y87h12.1 Scores fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:212327 5'
406	13191		4.24	2.0E-06	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
730	13504	28159	0.91	2.0E-06	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
4708	17440	30072	1.89	2.0E-06	BE148074.1	EST_HUMAN	RC3-HT0230-040500-110-g02 HT0230 Homo sapiens cDNA
7361	20042	33120	0.62	2.0E-06	BF369731.1	EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
7361	20042	33121	0.62	2.0E-06	BF369731.1	EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
8879	21570		5.63	2.0E-06	AV689461.1	EST_HUMAN	AV689461 GKC Homo sapiens cDNA clone GKC/FMD07 5'
12009	24543		2.81	2.0E-06	AW249440.1	EST_HUMAN	Z819351.5 Sprague NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819351 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
608	13386	26016	2.6	1.0E-06	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
608	13386	26017	2.6	1.0E-06	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
656	13433	26074	3.36	1.0E-06	Y18930.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
1774	14616	27216	2.56	1.0E-06	AW955054.1	EST_HUMAN	EST367124 MAGC resequences, MAGC Homo sapiens cDNA
1774	14616	27217	2.56	1.0E-06	AW955054.1	EST_HUMAN	EST367124 MAGC resequences, MAGC Homo sapiens cDNA
2262	15527	27729	1.06	1.0E-06	U51472.2	NT	Felis catus superfast myosin heavy chain (sMyHC) mRNA, complete cds
6869	17946	30541	1.3	1.0E-06	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6949	19431	32447	0.67	1.0E-06	6912455	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8111	20805	33638	1.24	1.0E-06	7661803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8111	20805	33639	1.24	1.0E-06	7661803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8616	21308	34450	20.66	1.0E-06	11419429	NT	Homo sapiens similar to ecdonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC83214), mRNA
8749	21441	34598	2.09	1.0E-06	AF274663.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10059	22707	35924	1.24	1.0E-06	AB033116.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
10059	22707	35925	1.24	1.0E-06	AB033116.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
11699	13396	26016	1.97	1.0E-06	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
11699	13396	26017	1.97	1.0E-06	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
7457	20131		2.6	6.0E-07	BE141849.1	EST_HUMAN	IL5-HT0117-011089-004-D07 HT0117 Homo sapiens cDNA
8832	21524	34670	0.69	6.0E-07	BE86012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925133 5'
8832	21524	34671	0.69	6.0E-07	BE86012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925133 5'
10497	23143	36369	0.57	6.0E-07	AA320332.1	EST_HUMAN	EST22672 Adipose tissue, white II Homo sapiens cDNA 5' end
10497	23143	36370	0.57	6.0E-07	AA320332.1	EST_HUMAN	EST22672 Adipose tissue, white II Homo sapiens cDNA 5' end
11382	23989	37280	1.46	6.0E-07	X19904.1	NT	Human mRNA for alpha-actinin
7913	20608	33739	1.91	5.0E-07	AL043314.2	EST_HUMAN	DKFZp434N0323_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
8042	20736	33669	11.73	5.0E-07	AA418026.1	EST_HUMAN	z67612.s1 Soares_NIHMPu_S1 Homo sapiens cDNA clone IMAGE:767758 3' similar to TRC-G1304125
9674	22227	35412	2.66	5.0E-07	BF154912.1	EST_HUMAN	G1304125 PMS4 MRNA
11535	24135	37441	1.98	5.0E-07	BE148597.1	EST_HUMAN	RC0-BT0812-250900-032-a09 BT0812 Homo sapiens cDNA
11535	24135	37442	1.98	5.0E-07	BE148597.1	EST_HUMAN	MRO-HT0241-150500-010-b02 HT0241 Homo sapiens cDNA
918	13695	26349	1.59	4.0E-07	BE004436.1	EST_HUMAN	MRO-HT0241-150500-010-b02 HT0241 Homo sapiens cDNA
928	13695	26359	1.04	4.0E-07	AB030176.1	NT	CMD-BN0106-170300-283-a08 BN0106 Homo sapiens cDNA
928	13695	26360	1.04	4.0E-07	AB030176.1	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds
1903	14640	27349	1.07	4.0E-07	5433572	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds
							Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5478	18277	31172	0.61	4.0E-07	4557326	NT	Homo sapiens epolipoprotein H (beta-2-glycoprotein I) (APOH) mRNA
5765	18556	31482	0.95	4.0E-07	U09002.1	NT	Human N-methyl-D-aspartate receptor modulatory subunit 2A (NMR2A) mRNA, complete cds
5765	18556	31483	0.95	4.0E-07	U09002.1	NT	Human N-methyl-D-aspartate receptor modulatory subunit 2A (NMR2A) mRNA, complete cds
6725	19559	32590	8.47	4.0E-07	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase 1, long form
6725	19559	32591	8.47	4.0E-07	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase 1, long form
6921	19657	32703	1	4.0E-07	7710126	NT	Homo sapiens ligase III, DNA, ATP-dependent (LIG3), transcript variant alpha, mRNA
6968	19450	32468	1.05	4.0E-07	11422155	NT	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8036	20731	33863	0.57	4.0E-07	4557708	NT	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2) mRNA
8259	20950	34087	2.63	4.0E-07	11421793	NT	Homo sapiens v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (SRC), mRNA
8518	21210	34353	0.76	4.0E-07	11423233	NT	Homo sapiens cytochrome P450, subfamily IVB, polypeptide 1 (CYP4B1), mRNA
9147	21878	35043	1.23	4.0E-07	AB011168.1	NT	Homo sapiens mRNA for KIAA0564 protein, partial cds
9147	21878	35044	1.23	4.0E-07	AB011168.1	NT	Homo sapiens mRNA for KIAA0564 protein, partial cds
11116	23788	37082	1.88	4.0E-07	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11116	23788	37083	1.88	4.0E-07	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11412	23179	38407	3.61	4.0E-07	AB042557.1	NT	Homo sapiens mRNA, similar to rat myoneglin, complete cds
11415	23182	38411	1.62	4.0E-07	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
11415	23182	38412	1.62	4.0E-07	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
12180	24652		7.76	4.0E-07	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
236	13046	25885	1.14	3.0E-07	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
854	13624	26294	29.53	3.0E-07	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
854	13624	26295	29.53	3.0E-07	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1422	15568	26855	1.29	3.0E-07	4758813	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
2440	15529	27895	1.68	3.0E-07	U36255.1	NT	Human beta-pituitary-adipin (BAM22) gene, exon 7
3254	16016	28667	1.3	3.0E-07	5174478	NT	Homo sapiens pericentriem (PCNT) mRNA
4729	17461	30098	12.99	1.0E-07	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
6333	19103	32091	2.48	1.0E-07	BE568486.1	EST_HUMAN	601338520F1 NIH MGC_53 Homo sapiens cDNA clone IMAGE:3681821 5'
8344	20415	33534	1.16	1.0E-07	AW379976.1	EST_HUMAN	RC0-HT0258-211189-011-g05 HT0258 Homo sapiens cDNA
8344	20415	33535	1.16	1.0E-07	AW379976.1	EST_HUMAN	RC0-HT0258-211189-011-g05 HT0258 Homo sapiens cDNA
9684	22316	35513	1.6	1.0E-07	R10887.1	EST_HUMAN	y38-08.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:129134 3'
10604	23298	36538	3.44	1.0E-07	11427757	NT	Homo sapiens KIAA00649 gene product (KIAA00649), mRNA
10604	23298	36539	3.44	1.0E-07	11427757	NT	Homo sapiens KIAA00649 gene product (KIAA00649), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11280	23941	37235	2.03	1.0E-07	AA553761.1	EST_HUMAN	nk2g02.s1 NCI_CGAP_Co11 Homo sapiens cDNA clone IMAGE:1014862 3'
11445	23212	36443	14.01	1.0E-07	11426272	NT	Homo sapiens ribosomal protein S16 (RPS16), mRNA
11445	23212	36444	14.01	1.0E-07	11426272	NT	Homo sapiens ribosomal protein S16 (RPS16), mRNA
881	13650	26319	3.52	9.0E-08	BE060973.1	EST_HUMAN	PM4-BT0724-010400-008-a12 BT0724 Homo sapiens cDNA
1253	14002	26670	1.12	9.0E-08	8393092	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
6210	18985		0.71	9.0E-08	AJ250713.1	NT	Homo sapiens CLDN12 gene for claudin-12
7190	19876	32949	0.87	9.0E-08	7661871	NT	Homo sapiens leucyl-tRNA synthetase, mitochondrial (KIAA00028), mRNA
7288	19869	33046	0.6	9.0E-08	11419408	NT	Homo sapiens A kinase (PRKA) anchor protein (yotiao) 9 (AKAP9), mRNA
7826	20520	33846	4.79	9.0E-08	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
7826	20520	33847	4.79	9.0E-08	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
9014	21704	34654	0.28	9.0E-08	X06889.1	NT	Human mRNA for amyloid A4(751) protein
9124	21612	34977	1.5	9.0E-08	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
9192	21862	35027	1.59	9.0E-08	AB037788.1	NT	Homo sapiens mRNA for KIAA1365 protein, partial cds
9238	21817		0.98	9.0E-08	AF057728.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exon 8
9267	22021	35190	1.14	9.0E-08	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
9267	22021	35191	1.14	9.0E-08	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
10160	22808	36026	0.45	9.0E-08	AF141325.2	NT	Homo sapiens inositol polyphosphate 1-phosphatase (INPP1) gene, complete cds
10928	23608	36856	2.63	9.0E-08	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
10928	23608	36857	2.63	9.0E-08	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11004	23676	36832	1.39	9.0E-08	11418982	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 7 (MAP3K7), mRNA
11850	24434	37776	1.39	9.0E-08	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11850	24434	37777	1.39	9.0E-08	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
1351	14099	26774	0.92	8.0E-08	AB033788.1	NT	Homo sapiens hPAD-ctdny10 mRNA for peptidylarginine deiminase type I, complete cds
1719	14462	27161	2.7	8.0E-08	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
1719	14462	27162	2.7	8.0E-08	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
3775	16527	29168	0.89	8.0E-08	J04469.1	NT	Human mitochondrial creatine kinase (CKMT) gene, complete cds
5991	18772	31735	0.99	5.0E-08	BE96873.1	EST_HUMAN	601507503F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:309097 5'
2178	14905	27638	1.14	3.0E-08	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone 16
2613	15324	28067	0.99	3.0E-08	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
2753	15458		2.9	3.0E-08	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
6847	19547	32578	1.9	3.0E-08	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6847	19547	32577	1.9	3.0E-08	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8649	21341	34485	2.73	3.0E-08	H46688.1	EST_HUMAN	Y017608.r1 Soares adult brain N255HB55Y Homo sapiens cDNA clone IMAGE:178240 5'
9197	21868	35030	0.48	3.0E-08	8822098	NT	Homo sapiens uncharacterized bone marrow protein BM039 (BM039), mRNA
9783	22434	35539	1.42	3.0E-08	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone l8
9783	22434	35540	1.42	3.0E-08	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone l8
10371	23017	36233	0.96	3.0E-08	BE900454.1	EST_HUMAN	601673688F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956517 5'
10872	23552	36769	4.11	3.0E-08	U69309.1	NT	Human fumarate precursor (FH) mRNA, nuclear gene encoding mitochondrial protein, complete cds
11863	24447	37788	1.58	3.0E-08	L26405.1	NT	Homo sapiens (huc) mRNA, complete cds
12688	25282		1.47	3.0E-08	BE382519.1	EST_HUMAN	601297855F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628213 6'
12751	25013		3.56	3.0E-08	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
2074	14903	27531	2.68	2.0E-08	BE294281.1	EST_HUMAN	601172658F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528134 5'
2231	14959	27699	1.53	2.0E-08	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21G002
4264	17005	29637	0.8	2.0E-08	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4306	17046	29670	3.21	2.0E-08	4758331	NT	Homo sapiens fatty-acid-Coenzyme A ligase, long-chain 4 (FACL4) mRNA
4776	17508	30129	1.34	2.0E-08	AF218902.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 16
4776	17508	30130	1.34	2.0E-08	AF218902.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 16
5131	17849	30466	1.39	2.0E-08	4758975	NT	Homo sapiens protein tyrosine kinase 2 beta (PTK2B) mRNA
5292	18097	30757	4.03	2.0E-08	7706512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
6557	19322	32329	1.15	2.0E-08	4505768	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7523	20194	33286	1.07	2.0E-08	11431271	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7523	20194	33287	1.07	2.0E-08	11431271	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
8506	21198	34342	4.94	2.0E-08	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8506	21198	34343	4.94	2.0E-08	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8591	21283	34421	0.58	2.0E-08	L76686.1	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8591	21283	34422	0.58	2.0E-08	L76686.1	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
9437	22115	35290	1.48	2.0E-08	X12684.1	NT	Homo sapiens arginase gene exon 3 (EC 3.5.3.1)
10313	22960		1.37	2.0E-08	7705888	NT	Homo sapiens arginase gene exon 3 (EC 3.5.3.1)
11155	23822	37103	1.42	2.0E-08	U22028.1	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
398	13181	25829	16.4	1.0E-08	AJ882007.1	EST_HUMAN	Human cytochrome P450 (CYP2A13) gene, complete cds
442	13228	25871	2.12	1.0E-08	AW898011.1	EST_HUMAN	U69304.x1 NGL_CGAP_U11 Homo sapiens cDNA clone IMAGE:2201743 3' similar to SW:RL2B_HUMAN
1789	14528	27237	11.24	1.0E-08	N46818.1	EST_HUMAN	P28316 60S RIBOSOMAL PROTEIN L23A ; PMD-BN0005-100300-001-c06 BN0008 Homo sapiens cDNA Y02305.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243585 5' similar to PIR-S54204 S54204 ribosomal protein L28 - human ;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5284	18040	30868	3.4	1.0E-08	AA198354.1	EST_HUMAN	z98609.1 Stragene muscle 837209 Homo sapiens cDNA clone IMAGE:628240 5' similar to TR:G806562
5482	18281	31178	1.1	1.0E-08	BE390627.1	EST_HUMAN	G806562 NEBULIN ;
5482	18281	31179	1.1	1.0E-08	BE390627.1	EST_HUMAN	601284986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3806892 5'
8896	21587	34726	2.7	1.0E-08	AF141349.1	NT	601284986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3806892 5'
8896	21587	34727	2.7	1.0E-08	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
5728	18520	31441	0.88	9.0E-09	AB05004.1	EST_HUMAN	Homo sapiens beta-tubulin mRNA, complete cds
5728	18520	31442	0.88	9.0E-09	AB05004.1	EST_HUMAN	QV-BT073-191298-012 BT073 Homo sapiens cDNA
5949	18731	31891	4.21	9.0E-09	AW88635.1	EST_HUMAN	QV-BT073-191298-012 BT073 Homo sapiens cDNA
11068	23736	37009	2.75	9.0E-09	AI479828.1	EST_HUMAN	EST380711 MAGE resequences, MAGJ Homo sapiens cDNA
11068	23736	37010	2.75	9.0E-09	AI479828.1	EST_HUMAN	tm69107.x1 NC1_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN
11390	23986	37298	2.13	9.0E-09	AA134604.1	EST_HUMAN	P55957 BH3 INTERACTING DOMAIN DEATH AGONIST ;
8827	21319	34461	1.99	8.0E-08	9835497	NT	tm69107.x1 NC1_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN
5743	18535	31458	10.03	7.0E-09	AF035808.1	NT	P55957 BH3 INTERACTING DOMAIN DEATH AGONIST ;
11610	24208	37532	2.89	7.0E-09	AF001886.1	NT	z980402.1 Stragene lung carcinoma 837218 Homo sapiens cDNA clone IMAGE:585443 5' similar to
459	13244	25888	1.89	6.0E-09	U10891.1	NT	TR:G882994 G882994 GPI-ANCHORED PROTEIN P137. ;
3968	16618	28258	1.15	6.0E-09	AW976384.1	EST_HUMAN	Human endogenous retrovirus, complete genome
4689	17433	30064	1.21	6.0E-09	4502860	NT	Homo sapiens oscillin (hln) gene, exon 5
6503	19268	32270	0.72	6.0E-09	7706136	NT	Homo sapiens NIK-receptor (KIR-G2) gene, linker region exon
6678	19341	32354	1.01	6.0E-09	L43610.1	NT	Human G2 protein mRNA, partial cds
6578	19341	32355	1.01	6.0E-09	L43610.1	NT	EST388473 MAGE resequences, MAGN Homo sapiens cDNA
8003	20698	33828	1.18	6.0E-09	X99101.1	NT	Homo sapiens GAP-like protein (LOC51306), mRNA
8022	20717	33849	0.53	6.0E-09	6801689	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
8663	21355	34502	2.28	6.0E-09	AB036429.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
8762	21454	34602	3.33	6.0E-09	AF080255.1	NT	Homo sapiens mRNA for estrogen receptor
8762	21454	34603	3.33	6.0E-09	AF080255.1	NT	Homo sapiens mRNA for estrogen receptor
8821	21513	34657	0.6	6.0E-09	11431894	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8821	21513	34658	0.6	6.0E-09	11431894	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
10620	23313	36553	3.89	6.0E-09	11628299	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
11433	23200	36431	2.01	6.0E-09	9910279	NT	Homo sapiens kdsstar protein mRNA, complete cds
11433	23200	36432	2.01	6.0E-09	9910279	NT	Homo sapiens kdsstar protein mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1857	14693	27406	1.38	5.0E-09	Y11365.1	NT	H. sapiens IMPA gene, exon 8
4526	17231	29895	1.66	5.0E-09	AF09860.1	NT	Homo sapiens T cell receptor beta locus, TORBV7S3A2 to TORBV12S2 region
12208	24674		2.81	5.0E-09	BE890177.1	EST_HUMAN	601513157F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914391 5'
8220	20914		4.88	3.0E-09	M85586.1	NT	Human E2AHLA fusion protein (E2AHLF) mRNA, complete cds
1217	13668		6.88	2.0E-09	AW274792.1	EST_HUMAN	XP006063.X1 NC1_CGAP_H1N8 Homo sapiens cDNA clone IMAGE:2738874 3' similar to gb:M31212 MYOSIN LIGHT CHAIN ALKALI, NON-MUSCLE ISOFORM (HUMAN);
3253	16015	28666	1.29	2.0E-09	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4506	17241	29874	1.04	2.0E-09	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7574	20243	33348	0.58	2.0E-09	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
8808	21300	34444	9.55	2.0E-09	W23507.1	EST_HUMAN	zb48408.r1 Soares_fetd_jung_NbHL19W Homo sapiens cDNA clone IMAGE:306635 5' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
6050	21739	34897	0.76	2.0E-09	R78264.1	EST_HUMAN	y81509.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145625 5'
11049	23719	36990	3.39	2.0E-09	AF247457.2	NT	Homo sapiens myosin X (MYO10) mRNA, complete cds
11788	24378	37708	1.46	2.0E-09	10883980	NT	Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
307	13111	25751	1.63	1.0E-09	AF114487.1	NT	Homo sapiens intercalin long isoform (ITSN) mRNA, complete cds
370	13166	25809	1.02	1.0E-09	11526150	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
1400	14147	26828	2.09	1.0E-09	M30638.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
1549	14295	26981	2.64	1.0E-09	AF182523.1	NT	Homo sapiens truncated Nlemin-Pick C3 protein (NIPC3) mRNA, complete cds
1549	14295	26982	2.64	1.0E-09	AF182523.1	NT	Homo sapiens truncated Nlemin-Pick C3 protein (NIPC3) mRNA, complete cds
1920	14657	27387	1.41	1.0E-09	4503730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products
1920	14657	27388	1.41	1.0E-09	4503730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products
3093	16948	29489	1.36	1.0E-09	J03171.1	NT	Human interferon-alpha receptor (HuIFN-alpha-Rcc) mRNA, complete cds
4347	17086	29715	2.82	1.0E-09	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
4347	17086	29716	2.82	1.0E-09	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
5656	19453	31367	0.68	1.0E-09	7692349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
6707	19622	32665	1.28	1.0E-09	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
6707	19622	32666	1.28	1.0E-09	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
7039	25104	32789	0.78	1.0E-09	X98802.1	NT	H. sapiens E8-AP gene exon 2
9099	21787		1.49	1.0E-09	11419721	NT	Homo sapiens ALEX1 protein (LOC51308), mRNA
9420	22088	35270	1.71	1.0E-09	AW340174.1	EST_HUMAN	hd02102.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2808371 3' similar to TR:002711
11084	23754	37029	2.01	1.0E-09	7427514	NT	O02711 PRO-POL-DUTPASE POLYPROTEIN ;
11084	23754	37030	2.01	1.0E-09	7427514	NT	Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA

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11141	23808	37088	1.8	1.0E-09	5901979	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA
11350	24040	37343	2.77	1.0E-09	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11884	24525		6.88	1.0E-09	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1	12830	25443	0.95	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
2	12830	25443	1.53	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
66	12894	25526	1.54	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
68	12894	25527	1.54	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
85	12911	25550	0.89	1.0E-100	AW275237.1	EST_HUMAN	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
165	12978	25618	1.24	1.0E-100	AL163206.2	NT	XV78b11.x1 NC1 CGAP_Bim63 Homo sapiens cDNA clone IMAGE:2824605 3'
309	13113	25753	0.83	1.0E-100	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C006
334	13135	25770	3.08	1.0E-100	T05087.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C049
427	13213		1.28	1.0E-100	AF003528.1	NT	EST028975 Fetal brain, Striatum (cat#36206) Homo sapiens cDNA clone HFBQR32
477	13263		7.19	1.0E-100	X89831.1	NT	Homo sapiens X-linked atrial fibrillation protein gene (EDA), exon 2 and flanking repeat regions
496	13280	25915	1.33	1.0E-100	BE180609.1	EST_HUMAN	G.gorilla DNA for ZNF80 gene homolog
998	13758	28418	3.22	1.0E-100	7661695	NT	RC3-HT0628-040500-022-b09 HT0625 Homo sapiens cDNA
998	13758	28418	3.22	1.0E-100	7661695	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1415	14163	26946	3.14	1.0E-100	BF530735.1	EST_HUMAN	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1538	14283		1.14	1.0E-100	AW207555.1	EST_HUMAN	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1543	14289	26978	1.81	1.0E-100	AI200857.1	EST_HUMAN	602072084F1 NC1 CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4215039 5'
1856	14594	27309	1.41	1.0E-100	AB032994.1	NT	UHH-B11-afk-c-07-0-J1.s1 NC1 CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722164 3'
2238	14986		1.39	1.0E-100	D83349.1	NT	q62R09.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1754633 3' similar to SW:CYT_COTJA
2439	15169	27894	1.33	1.0E-100	X62468.1	NT	P81061 CYSTATIN:
2710	15417	28165	2.36	1.0E-100	11418978	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
3018	15784		5.5	1.0E-100	D11078.1	NT	Rat mRNA for short type PB-catharin, complete cds
4186	16927	28558	1.92	1.0E-100	AF057354.1	NT	H.sapiens mRNA for IFN-gamma (pKC-0)
4211	16952	28576	2.14	1.0E-100	4503782	NT	Homo sapiens KIAA0857 protein (KIAA0857), mRNA
4418	17154	28785	1.03	1.0E-100	AF036943.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
5031	17751	30362	2.66	1.0E-100	5032104	NT	Homo sapiens myotubularin-related protein 1a mRNA, partial cds
5031	17751	30363	2.66	1.0E-100	5032104	NT	Homo sapiens follicle stimulating hormone receptor (FSHR) mRNA
5207	18015	30637	1.82	1.0E-100	BF244218.1	EST_HUMAN	Homo sapiens myelin transcription factor 1-like (MYT1L) mRNA, complete cds
							Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
							Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
							Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
							601863164F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4080999 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5421	18220	30831	0.59	1.0E-100	AW075893.1	EST_HUMAN	pa8201.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2573305 3' similar to gb:X12433
5614	18410	31323	1.33	1.0E-100	AU118182.1	EST_HUMAN	PROTEIN PHPS1-2 (HUMAN);
5660	18455	31369	1.28	1.0E-100	AF135118.1	NT	AU118182 HEMBA1 Homo sapiens cDNA clone HEMBA1003048 5'
5747	18539	31461	0.8	1.0E-100	X14690.1	NT	Homo sapiens NF-E2-related factor 3 gene, complete cds
6071	18950	31814	0.94	1.0E-100	4557588	NT	Human mRNA for plasma inter-alpha-trypsin inhibitor heavy chain H(3)
6071	18950	31815	0.94	1.0E-100	4557588	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6343	19113		1.87	1.0E-100	5729887	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6405	19174	32173	5.84	1.0E-100	AU140214.1	EST_HUMAN	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
6457	19224	32224	1.97	1.0E-100	AU136800.1	EST_HUMAN	AU140214 PLACE2 Homo sapiens cDNA clone PLACE2000137 5'
6586	19349	32362	1.37	1.0E-100	R10887.1	EST_HUMAN	AU136800 PLACE1 Homo sapiens cDNA clone PLACE1005089 5'
6670	19587	32622	0.9	1.0E-100		NT	yf38-c08.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:128734 3'
6742	19578	32608	1.19	1.0E-100	AA496841.1	EST_HUMAN	Homo sapiens Rho GTPase activating protein 8 (ARHGAP8), transcript variant 4, mRNA
6742	19578	32608	1.19	1.0E-100	AA496841.1	EST_HUMAN	6633b06.t1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897587 5' similar to TR:G487418
6786	19630	32557	1.13	1.0E-100	BF378478.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN. ;
6786	19630	32558	1.13	1.0E-100	BF378478.1	EST_HUMAN	MR1-TN0046-060900-004-b05 TN0046 Homo sapiens cDNA
6793	19837	32585	6.76	1.0E-100	X04571.1	NT	MR1-TN0046-060900-004-b05 TN0046 Homo sapiens cDNA
8430	21123	34261	7.17	1.0E-100	BF103853.1	EST_HUMAN	Human mRNA for kidney epidermal growth factor (EGF) precursor
8466	21168		4.8	1.0E-100	AL163203.2	NT	601647357F1 NIH_MGC_61 Homo sapiens cDNA clone IMAGE:3831310 5'
8812	21803	34746	0.68	1.0E-100	AU116951.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
8812	21803	34747	0.68	1.0E-100	AU116951.1	EST_HUMAN	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9132	21820	34986	3.52	1.0E-100	AB040818.1	NT	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9210	22089		2.78	1.0E-100	AB040818.1	EST_HUMAN	Homo sapiens mRNA for KIAA1485 protein, partial cds
9333	20404	33520	1.82	1.0E-100	AW098811.1	EST_HUMAN	MR1-TN0046-060900-004-b05 TN0046 Homo sapiens cDNA
9386	22048		7.61	1.0E-100	AU127720.1	EST_HUMAN	PMO-BND085-100300-001-c08 BN0065 Homo sapiens cDNA
9483	22136	35318	2.11	1.0E-100	AB046846.1	NT	AU127720 NT2RP2 Homo sapiens cDNA clone NT2RP2001818 5'
9483	22136	35317	2.11	1.0E-100	AB046846.1	NT	Homo sapiens mRNA for KIAA1628 protein, partial cds
9743	22394	35598	1.68	1.0E-100	AW630487.1	EST_HUMAN	Homo sapiens mRNA for KIAA1628 protein, partial cds
9743	22394	35589	1.68	1.0E-100	AW630487.1	EST_HUMAN	hm83ct11.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969396 5'
9805	22554	35749	0.49	1.0E-100	AV732101.1	EST_HUMAN	hm83ct11.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969396 5'
10368	23014	36230	1.47	1.0E-100	BF347519.1	EST_HUMAN	AV732101 HTF Homo sapiens cDNA clone HTFBIG01 6'
						EST_HUMAN	602020554F1 NCI_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4166165 5'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10458	23104		2.2	1.0E-100	Y10391.1	NT	Human endogenous retrovirus HERV-K, pol gene
10658	23349	36586	6.27	1.0E-100	BF327282.1	EST_HUMAN	MRO-BN0070-270300-008-h11 BN0070 Homo sapiens cDNA
11326	24017	37319	4.52	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jaggcd2 gene, complete cds; and unknown gene
11328	24017	37320	4.52	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jaggcd2 gene, complete cds; and unknown gene
11356	12830	25443	2.11	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
11633	24230		1.59	1.0E-100	AW875464.1	EST_HUMAN	QV2-PT0012-010300-070-404 PT0012 Homo sapiens cDNA
11681	24276		1.48	1.0E-100	AF286285.1	NT	Homo sapiens golgin-like protein (GLP) gene, complete cds
11749	24340	37668	1.57	1.0E-100	AA115605.1	EST_HUMAN	z689a03.r1 Soares_pregnant uterus Nbl-IPU Homo sapiens cDNA clone IMAGE:489884 5'
11749	24340	37669	1.57	1.0E-100	AA115605.1	EST_HUMAN	z689a03.r1 Soares_pregnant uterus Nbl-IPU Homo sapiens cDNA clone IMAGE:489884 5'
11907	24471	37806	6.67	1.0E-100	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12031	25278		1.51	1.0E-100	BF446549.1	EST_HUMAN	7q88h03.x1 NC1 CGAP Lu24 Homo sapiens cDNA clone IMAGE: 3' similar to TR-Q21897 Q21897
12200	24668	31071	3.67	1.0E-100	11545732	NT	COSMID R151. [2] TR-Q8UA08 ;
12762	25044	30908	4.62	1.0E-100	11417874	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
75	12902	26539	1.75	1.0E-101	7110714	NT	Homo sapiens transcobalamin II: macrocytic anemia (TCN2), mRNA
75	12902	26540	1.75	1.0E-101	7110714	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
671	13447	26087	1.62	1.0E-101	AB007815.2	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
688	13463	26111	5.88	1.0E-101	7110734	NT	Homo sapiens mRNA for KIAA0446 protein, partial cds
688	13463	26112	5.88	1.0E-101	7110734	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
754	13526	26185	1.99	1.0E-101	7110734	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
833	13603	26273	1.5	1.0E-101	45038914	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
904	13671	26335	1.22	1.0E-101	Z20658.1	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylamidazole synthetase (GART) mRNA
964	13726	26396	14.26	1.0E-101	BF881218.1	EST_HUMAN	Homo sapiens of cardiac alpha-myosin heavy chain gene
1030	13790	26449	1.63	1.0E-101	A1221878.1	EST_HUMAN	G02156474F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:42872201 5'
1577	14324	27012	1.46	1.0E-101	5821460	NT	qg99a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
1577	14324	27013	1.46	1.0E-101	5821460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1740	14482	27182	1.52	1.0E-101	7882183	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1740	14482	27183	1.52	1.0E-101	7882183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1838	14673	27389	1.62	1.0E-101	4502896	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
2050	14783	27510	1.79	1.0E-101	BE843070.1	EST_HUMAN	Homo sapiens carboxypeptidase A1 (pancreatic) (CPA1) mRNA
2349	15592	27808	1.71	1.0E-101	5728892	NT	RC3-ST0281-160600-016-h09 ST0281 Homo sapiens cDNA
2620	15332	28076	2.8	1.0E-101	X72993.1	NT	Homo sapiens A kinase (PRKA) anchor protein 6 (AKAP6), mRNA
							H. sapiens EWS gene, exon 5

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2747	15452	28192	1.09	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
2747	15452	28193	1.09	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
2955	15721		13.73	1.0E-101	AJ252312.1	NT	Homo sapiens genomic downstream Rhesus box
3198	15961	28613	1.98	1.0E-101	4895270	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1) mRNA
3235	15997		2.27	1.0E-101	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_80 Homo sapiens cDNA clone IMAGE:3862088 5'
3375	16134	28790	1.93	1.0E-101	AW965558.1	EST_HUMAN	EST377628 MAGE resequences, MAGI Homo sapiens cDNA
3395	15452	28192	1.49	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
3395	15452	28193	1.49	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
3857	16907	29245	3.69	1.0E-101	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
4974	17697	30304	1.16	1.0E-101	5821460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
4974	17697	30305	1.16	1.0E-101	5821460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
5235	18041	30689	1.22	1.0E-101	AW965139.1	EST_HUMAN	EST377212 MAGE resequences, MAGI Homo sapiens cDNA
5913	18698	31651	3.68	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
5913	18698	31652	3.68	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6595	18358	32372	1.27	1.0E-101	11430734	NT	Homo sapiens carbonic anhydrase VII (CA7), mRNA
7173	18959		1.01	1.0E-101	11545780	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7220	18905	32877	5.67	1.0E-101	AF2088970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7220	18905	32878	5.57	1.0E-101	AF2088970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7376	20058	33136	7.48	1.0E-101	AW008476.1	EST_HUMAN	w55f12.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2533487 3'
7474	20147		1.79	1.0E-101	BE257394.1	EST_HUMAN	601109217F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3349801 5'
7623	20289	33398	7.43	1.0E-101	BF330759.1	EST_HUMAN	RC1-BT0313-220700-018-f12 BT0313 Homo sapiens cDNA
7813	20508	33631	0.84	1.0E-101	BE276821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345869 5'
7813	20508	33632	0.84	1.0E-101	BE276821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345869 5'
7854	20649	33772	2.88	1.0E-101	BF029174.1	EST_HUMAN	601784688F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3996837 5'
							h174g10.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2968578 5' similar to gb:J03143
8221	20915	34050	0.67	1.0E-101	AW630070.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
							h174g10.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2968578 5' similar to gb:J03143
8221	20915	34051	0.67	1.0E-101	AW630070.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
8908	21699	34741	1.08	1.0E-101	AA036800.1	EST_HUMAN	z129g08.J1 Soares pregnant_ufanus_NhiPU Homo sapiens cDNA clone IMAGE:471898 5' similar to
8229	21808	35080	0.83	1.0E-101	AB037772.1	NT	PIR:S54840 S54840 YD6393.03c protein - yeast;
8229	21808	35081	0.83	1.0E-101	AB037772.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
8362	20432	33563	17.13	1.0E-101	X600069.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
8362	20432	33564	17.13	1.0E-101	X600069.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase
8362	20432	33564	17.13	1.0E-101	X600069.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9375	21850	35123	17.01	1.0E-101	9845402	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), transcript variant 3, mRNA
9657	22308	35506	6.24	1.0E-101	BE619667.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875653 3'
9657	22308	35507	6.24	1.0E-101	BE619667.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875653 3'
9784	22445	35650	0.72	1.0E-101	10963960	NT	Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
10308	22955	36171	1.49	1.0E-101	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10447	23093	36323	0.94	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950987 5'
10447	23093	36324	0.94	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950987 5'
10788	23471	36713	1.98	1.0E-101	S38327.1	NT	branched-chain alpha-keto acid dehydrogenase complex E1 alpha subunit [human, Genomic, 195 nt, segment 8 of 9]
11053	23723	36894	2.11	1.0E-101	AB020626.1	NT	Homo sapiens mRNA for KIAA0819 protein, partial cds
11988	24004	37307	2.06	1.0E-101	AI590078.1	EST_HUMAN	tm58c01.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162304 3' similar to gb:M13361
11398	24004	37308	2.06	1.0E-101	AI590078.1	EST_HUMAN	tm58c01.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162304 3' similar to gb:M13361
11763	24354	37686	1.31	1.0E-101	AB08168.1	EST_HUMAN	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
11763	24354	37687	1.31	1.0E-101	AB08168.1	EST_HUMAN	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
12461	24828	25485	13.68	1.0E-101	AW639051.1	EST_HUMAN	tm58c01.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162304 3' similar to gb:M13361
38	12866	25485	2	1.0E-102	AF012672.1	NT	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
332	13133	25767	4.35	1.0E-102	AL163303.2	NT	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
758	13530	26180	1.59	1.0E-102	4557634	NT	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
1095	13553	26512	2.8	1.0E-102	M10976.1	NT	RC-BT163-290498-085 BT163 Homo sapiens cDNA
1245	13984	26680	1.67	1.0E-102	11437146	NT	RC-BT163-290498-085 BT163 Homo sapiens cDNA
1245	13984	26681	1.67	1.0E-102	11437146	NT	RC-BT163-290498-085 BT163 Homo sapiens cDNA
1261	14010	26678	0.99	1.0E-102	4826977	NT	QV1-DT0068-240200-085-a01 DT0068 Homo sapiens cDNA
1398	14145	26823	119.7	1.0E-102	BE408447.1	EST_HUMAN	QV1-DT0068-240200-085-a01 DT0068 Homo sapiens cDNA
2307	15032	27769	1.88	1.0E-102	AI124689.1	EST_HUMAN	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
2307	15032	27770	1.88	1.0E-102	AI124689.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C103
3061	15827	28472	1.32	1.0E-102	7661979	NT	Homo sapiens down-regulated in adenoma (DRA) mRNA
3130	15895	28538	4.76	1.0E-102	AU141005.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
3130	15895	28539	4.76	1.0E-102	AU141005.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
4207	16948	28574	1.57	1.0E-102	AL163207.2	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 8 (SLC2A9), mRNA
4378	17115	28748	2.17	1.0E-102	BE251310.1	EST_HUMAN	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
2307	15032	27770	1.88	1.0E-102	AI124689.1	EST_HUMAN	Homo sapiens reelin (RELN) mRNA
3061	15827	28472	1.32	1.0E-102	7661979	NT	601296982F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3029601 5'
3130	15895	28538	4.76	1.0E-102	AU141005.1	EST_HUMAN	601296982F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3029601 5'
3130	15895	28539	4.76	1.0E-102	AU141005.1	EST_HUMAN	601296982F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3029601 5'
4207	16948	28574	1.57	1.0E-102	AL163207.2	NT	601296982F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3029601 5'
4378	17115	28748	2.17	1.0E-102	BE251310.1	EST_HUMAN	601296982F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3029601 5'

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5287	18092	30753	1.87	1.0E-102	AF067133.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 7
5663	18458		8.17	1.0E-102	AB034861.1	NT	Homo sapiens HSC54 mRNA for heat shock cognate protein 64, complete cds
5698	18492	31414	2.84	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5698	18492	31415	2.84	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5704	18498	31420	0.81	1.0E-102	11433046	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
							ar82099.x1 Barcode colon HPLRB7 Homo sapiens cDNA clone IMAGE:2151785 3' similar to TR-Q13137
							Q13137 NDP62 :
6200	18976	31954	2.93	1.0E-102	AI459825.1	EST_HUMAN	601561505F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3831241 5'
7036	19728	32785	0.75	1.0E-102	BE728323.1	EST_HUMAN	60127215F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618243 5'
7065	19756	32821	1.04	1.0E-102	BE388108.1	EST_HUMAN	Homo sapiens mRNA for Centaurin-alpha2 protein
7255	19939	33014	8.23	1.0E-102	AJ238994.1	NT	AV107138 Cu Homo sapiens cDNA clone CUAAKD03 5'
7624	20195	33288	2.48	1.0E-102	AV710738.1	EST_HUMAN	QV3-NT0025-210600-238-H08 NT0025 Homo sapiens cDNA
8122	20816	33962	3.91	1.0E-102	BE763051.1	EST_HUMAN	601501107F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3903145 5'
8201	20895	34032	1.32	1.0E-102	BE910555.1	EST_HUMAN	601501107F1 NIH_MGC_70 Homo sapiens cDNA clone GK0EEE11 5'
8392	21085	34218	2.21	1.0E-102	AV694817.1	EST_HUMAN	AV694817 GK0 Homo sapiens cDNA clone GK0EEE11 5'
8392	21085	34219	2.21	1.0E-102	AV694817.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
8801	21193	34335	1.19	1.0E-102	AB007823.1	NT	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605536 5'
8829	21621	34667	0.63	1.0E-102	BE388063.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605536 5'
8829	21521	34668	0.63	1.0E-102	BE388063.1	EST_HUMAN	wf63b08.x1 NC1 CGAP_Kd12 Homo sapiens cDNA clone IMAGE:2397971 5' similar to contains MER4.t1
							MER4 MER4 repetitive element:
9150	21881	35049	0.52	1.0E-102	AI762859.1	EST_HUMAN	AV755842 BM Homo sapiens cDNA clone BMFAUD08 5'
9181	21851	35017	0.81	1.0E-102	AV755842.1	EST_HUMAN	AV755842 BM Homo sapiens cDNA clone IMAGE:67021 5'
9221	21900	35069	2.28	1.0E-102	T70393.1	EST_HUMAN	y413407.J1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:67021 5'
9221	21900	35070	2.28	1.0E-102	T70393.1	EST_HUMAN	y413407.J1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone NT2RM4000309 5'
9311	21978	35151	3.79	1.0E-102	AU124629.1	EST_HUMAN	AU124628 NT2RM4 Homo sapiens cDNA clone NT2RM4000309 5'
10261	22929	36228	0.69	1.0E-102	AF153715.1	NT	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
10367	23013	36228	3.67	1.0E-102	AI905037.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo sapiens cDNA
10367	23013	36229	3.67	1.0E-102	AI905037.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo sapiens cDNA
							on57f04.s1 Soares_NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:1560823 3' similar to
10428	23074	36295	1.24	1.0E-102	AA907086.1	EST_HUMAN	SW-CAV2_HUMAN P51636 CAVEOLIN-2, [1];
11008	23680	36937	2.56	1.0E-102	4507822	NT	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
11008	23680	36938	2.56	1.0E-102	4507822	NT	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
11290	23951	37248	1.55	1.0E-102	AA868675.1	EST_HUMAN	ak49h10.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1406947 3'
11390	23987	37287	3.01	1.0E-102	BF359243.1	EST_HUMAN	RC6-ET0072-150600-011-F01 ET0072 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11710	24305	37631	3.57	1.0E-102	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
11911	24475		3.52	1.0E-102	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
12450	24820	31023	4.69	1.0E-102	AW300882.1	EST_HUMAN	X607c12.x1 NCL_CGAP_Co20 Homo sapiens cDNA clone IMAGE:2668038 3'
67	12896	25528	1.19	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
67	12896	25529	1.19	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
88	12924	25661	10.5	1.0E-103	D87078.2	NT	Homo sapiens mRNA for KIAA0235 protein, partial cds
203	13016	25656	1.45	1.0E-103	5453783	NT	Homo sapiens nucleolar protein (KKE/D repeat) (NOP56) mRNA
980	13726	26389	0.79	1.0E-103	AJ278348.1	NT	Homo sapiens mRNA for pregnancy-associated plasma protein-E (PAPPE gene)
1221	13971	26843	10.23	1.0E-103	BE877641.1	EST_HUMAN	601485388F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887876 5'
1691	14337	27028	3.76	1.0E-103	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
1907	14644	27354	1.75	1.0E-103	7857592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
1988	14704	27420	1.44	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
1988	14704	27421	1.44	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2303	16028	27765	1.15	1.0E-103	AU134991.1	EST_HUMAN	ALU134991 PLACE1 Homo sapiens cDNA clone PLACE1000865 5'
2452	15170	27909	1.33	1.0E-103	AF060568.1	NT	Homo sapiens promyelocytic leukemia zinc finger protein (PLZF) gene, complete cds
2603	15316	28055	1.23	1.0E-103	BF529379.1	EST_HUMAN	602041882F1 NCL_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4179428 5'
2603	15316	28056	1.23	1.0E-103	BF529379.1	EST_HUMAN	602041882F1 NCL_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4179428 5'
3064	15930		2.68	1.0E-103	BE744722.1	EST_HUMAN	601573113F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834315 3'
3374	16133	28789	4.1	1.0E-103	AW288245.1	EST_HUMAN	UIH-BW0-qt-h-11-0-UI.s1 NCL_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733165 3'
3433	16189	28837	0.89	1.0E-103	AB040802.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
3737	16490		8.55	1.0E-103	AF023861.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
3774	16528	29165	1.23	1.0E-103	AA485683.1	EST_HUMAN	Macaca mulatta cyclophilin A mRNA, complete cds
3810	16562	29195	1.72	1.0E-103	11430876	NT	ab10d12.s1 Stragene lung (#637210) Homo sapiens cDNA clone IMAGE:840407 3' similar to contains element LTR10 repetitive element ;
3985	16733	29387	3.47	1.0E-103	T23883.1	EST_HUMAN	Homo sapiens neuropilin 1 (NRP1), mRNA
5844	16632	31597	0.96	1.0E-103	BF569527.1	EST_HUMAN	seq340 b4HB3MA-Cof109+10-Bio Homo sapiens cDNA clone b4HB3MA-Cof109+10-Bio-7 3'
5852	16639	31577	2.62	1.0E-103	AF176955.1	NT	602186023F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310573 5'
6174	18951	31923	0.89	1.0E-103	11435053	NT	Homo sapiens septin 2 (SEP2) mRNA, partial cds
6174	18951	31924	0.89	1.0E-103	11435053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6368	19137	32132	0.75	1.0E-103	AW954568.1	EST_HUMAN	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6368	19137	32133	0.75	1.0E-103	AW954568.1	EST_HUMAN	EST368638 IMAGE resequences, MAGC Homo sapiens cDNA
6498	25092	32265	1.53	1.0E-103	AA781442.1	EST_HUMAN	EST368638 IMAGE resequences, MAGC Homo sapiens cDNA
6535	19301	32304	0.94	1.0E-103	AF053490.1	NT	q28ed03.s1 Scarae testis_NHT Homo sapiens cDNA clone 1391452 3'
							Homo sapiens glycine receptor alpha 2 subunit (GLRA2) gene, exon 4

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6618	19380	32393	1.48	1.0E-103	AI590071.1	EST_HUMAN	hm58605.x1 NC1_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
6618	19380	32397	1.48	1.0E-103	AI590071.1	EST_HUMAN	hm58605.x1 NC1_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
6747	17916	30579	1.53	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS208, DXS230, DXS238, DXS268, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
6747	17916	30580	1.53	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS208, DXS230, DXS238, DXS268, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
6872	17949	30544	1.27	1.0E-103	11431100	NT	Homo sapiens ribosomal protein L3-like (RPL3L), mRNA
6835	19670	32716	0.89	1.0E-103	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), XTS gene and LZTFL1 gene
7127	19815	32883	1.63	1.0E-103	AW965778.1	EST_HUMAN	EST377849 MAGE resequences, MAGI Homo sapiens cDNA
7233	19918	32890	6.93	1.0E-103	BE748158.1	EST_HUMAN	601671537F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3838545 5'
7671	20335	33446	4.21	1.0E-103	AI590071.1	EST_HUMAN	hm58605.x1 NC1_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
7671	20335	33447	4.21	1.0E-103	AI590071.1	EST_HUMAN	hm58605.x1 NC1_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
8187	20881	34019	0.77	1.0E-103	T31080.1	EST_HUMAN	EST27193 Human Brain Homo sapiens cDNA 5' end similar to None
8519	21211	34354	2.22	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
8519	21211	34355	2.22	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
8804	21206	34439	1.1	1.0E-103	BF109244.1	EST_HUMAN	780803.x1 Scores_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3525984 3' similar to SW:PTNF_HUMAN_Q16825 PROTEIN-TYROSINE PHOSPHATASE D1;
9005	21695	34845	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9005	21695	34846	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9046	21736	34891	1.16	1.0E-103	AA581098.1	EST_HUMAN	nd136d2.s1 NC1_CGAP_Ov1 Homo sapiens cDNA clone IMAGE:800162 3' similar to gb:U02428 28S PROTEASE SUBUNIT 4 (HUMAN);
9088	21777	34941	5.04	1.0E-103	AA774980.1	EST_HUMAN	ae84d12.s1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:970871 3' similar to gb:X03747_cds1 SODIUMPOTASSIUM-TRANSPORTING ATPASE BETA-1 (HUMAN);
9162	21832	34985	0.58	1.0E-103	BE935842.1	EST_HUMAN	QV2-NN0045-230800-322-b03 NN0045 Homo sapiens cDNA
9162	21832	34986	0.56	1.0E-103	BE935842.1	EST_HUMAN	QV2-NN0045-230800-322-b03 NN0045 Homo sapiens cDNA
9558	22808	35911	1.44	1.0E-103	Z37976.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
9999	22647	35859	1.89	1.0E-103	AW963676.1	EST_HUMAN	EST375749 MAGC resequences, MAGH Homo sapiens cDNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10138	22788	35988	9.2	1.0E-103	A1878856.1	EST_HUMAN	au51g04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518328 5' similar to TR:O15046 O15046 KIAA0338;
10634	23328	36583	3.66	1.0E-103	A1782759.1	EST_HUMAN	cl02i08.y5 NC1_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1522283 5' similar to TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING;
10737	23424	36688	2.04	1.0E-103	11424061	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
10737	23424	36689	2.04	1.0E-103	11424061	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
10748	23434	36677	2.22	1.0E-103	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
10748	23434	36678	2.22	1.0E-103	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
10793	23476	36717	1.3	1.0E-103	X87831.2	NT	Homo sapiens mRNA for partial OCT/plestin-A2 protein
10793	23478	36718	1.3	1.0E-103	X87831.2	NT	Homo sapiens mRNA for partial OCT/plestin-A2 protein
11347	24037	37340	2.8	1.0E-103	AU136283.1	EST_HUMAN	AU136283 PLACE1 Homo sapiens cDNA clone PLACE1003923 5'
11423	23190	36421	10.74	1.0E-103	L3610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
11748	24339	37687	2.41	1.0E-103	BE644611.1	EST_HUMAN	7668a10.x1 Scores_NSF_F8_GW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3287610 3' similar to contains MER29 t9 MER29 repetitive element;
11837	24494		2.11	1.0E-103	11628291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
12128	24620	31091	2.83	1.0E-103	AB011398.1	NT	Homo sapiens gene for AF-8, complete cds
227	13039	25676	3.73	1.0E-104	AL037546.3	EST_HUMAN	DKFZp564H1072_r1 564 (synonym: hfbz2) Homo sapiens cDNA clone DKFZp564H1072 5'
227	13039	25677	3.73	1.0E-104	AL037546.3	EST_HUMAN	DKFZp564H1072_r1 564 (synonym: hfbz2) Homo sapiens cDNA clone DKFZp564H1072 5'
1881	14618	27328	2.18	1.0E-104	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2190	14919	27653	3.68	1.0E-104	AA132875.1	EST_HUMAN	3a22a08.e1 Stratagene colon (#837204) Homo sapiens cDNA clone IMAGE:587628 3' similar to gb:Z14116_mai1 CD59 GLYCOPROTEIN PRECURSOR (HUMAN);
2201	14929	27688	2.57	1.0E-104	BE744628.1	EST_HUMAN	601577460F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3828438 5'
2369	15091	27829	1.38	1.0E-104	BF334221.1	EST_HUMAN	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
2369	15091	27830	1.38	1.0E-104	BF334221.1	EST_HUMAN	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
2438	15158	27893	1.68	1.0E-104	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2507	15224	27865	1.11	1.0E-104	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2507	15224	27868	1.11	1.0E-104	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2874	15641	28285	7.41	1.0E-104	M94671.1	NT	Human lymphocytic antigen CD59/MEM43 mRNA, complete cds
2917	19683		2.74	1.0E-104	Y11151.1	NT	H.sapiens gene encoding phenylpyruvate tautomerase II
3386	16145		2.04	1.0E-104	AA319436.1	EST_HUMAN	EST21658 Adrenal gland tumor Homo sapiens cDNA 5' end
3587	16341	28988	0.79	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3587	16341	28987	0.79	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3924	16674	29315	0.76	1.0E-104	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
4344	17083	29712	3.93	1.0E-104	X02761.1	NT	Human mRNA for fibronectin (FN precursor)

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4570	17306	29832	1.23	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
4970	17305	29833	1.23	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
5108	17824	30441	1.08	1.0E-104	7857038	NT	Homo sapiens death receptor 6 (DR6), mRNA
5850	18637	31573	1.28	1.0E-104	U43378.1	NT	Human Down Syndrome region of chromosome 21 DNA
5850	18637	31574	1.28	1.0E-104	U43378.1	NT	Human Down Syndrome region of chromosome 21 DNA
5897	18682	31630	1.12	1.0E-104	AB017332.1	NT	Homo sapiens alk3 mRNA for Aurora/Ip1-related kinase 3, complete cds
6375	19144	32141	9.51	1.0E-104	AJ768797.1	EST_HUMAN	wj03b12.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14145 KIAA0132 PROTEIN; contains element LTR7 repetitive element;
6375	19144	32142	9.51	1.0E-104	AJ768797.1	EST_HUMAN	wj03b12.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14145 KIAA0132 PROTEIN; contains element LTR7 repetitive element;
6551	19316	32322	0.75	1.0E-104	7708512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
6708	19621	32663	3.31	1.0E-104	BE314182.1	EST_HUMAN	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
6708	19621	32664	3.31	1.0E-104	BE314182.1	EST_HUMAN	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
7125	18813	32881	2.03	1.0E-104	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
8495	21187	34330	0.83	1.0E-104	BF508244.1	EST_HUMAN	U1-H-B14-aw-b-09-O-U1.at NCL CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086176 3'
9065	21754	34915	5.23	1.0E-104	BF448230.1	EST_HUMAN	mad16g11.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3365948 3'
9163	21833	34997	0.5	1.0E-104	AA682308.1	EST_HUMAN	zj98b05.at Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:462897 3'
9184	21854	35060	1.31	1.0E-104	T74219.1	EST_HUMAN	yc83102.t1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:22440 5'
9214	21893	35061	4.27	1.0E-104	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9214	21893	35061	4.27	1.0E-104	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9341	20412	33529	4.4	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
9341	20412	33530	4.4	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
9654	22308	35503	0.85	1.0E-104	AW103948.1	EST_HUMAN	xd76d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TR:Q24116
9654	22308	35504	0.85	1.0E-104	AW103948.1	EST_HUMAN	xd76d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TR:Q24116
9847	22497	35898	0.71	1.0E-104	AF113514.1	NT	Homo sapiens histone acetyltransferase MORF mRNA, complete cds
9893	22841	35852	2.83	1.0E-104	BE791713.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
9893	22841	35853	2.83	1.0E-104	BE791713.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10289	22946	36160	1.29	1.0E-104	AV728070.1	EST_HUMAN	AV728070 HTC Homo sapiens cDNA clone HTCBYA07 5'
10339	22986	36204	4.51	1.0E-104	AU130785.1	EST_HUMAN	AU130785 NT2RP3 Homo sapiens cDNA clone NT2RP3001388 5'
10450	23086	36327	4.41	1.0E-104	U66535.1	NT	Human beta4-integrin (ITGB4) gene, exons 19,20,21,22,23,24 and 25
10464	23110	36327	0.92	1.0E-104	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
11268	23930	37221	2.07	1.0E-104	BE720181.1	EST_HUMAN	RCO-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11288	23930	37222	2.07	1.0E-104	BE720191.1	EST_HUMAN	RC0-HT0885-310700-021-409 HT0885 Homo sapiens cDNA
11289	23959	37259	4.86	1.0E-104	BF684288.1	EST_HUMAN	602141215F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302507 6'
11590	24189	37505	1.75	1.0E-104	BE731978.1	EST_HUMAN	601568806F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841681 5'
11590	24189	37506	1.75	1.0E-104	BE731978.1	EST_HUMAN	601568808F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841681 5'
11781	24381	37712	1.42	1.0E-104	11434729	NT	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6KA5), mRNA
12702	24982		2.38	1.0E-104	BE363692.1	EST_HUMAN	601312181F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658676 5'
272	16514	25722	11.13	1.0E-105	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
416	12827	26440	8.89	1.0E-105	4505160	NT	Homo sapiens Meis1 (mouse) homolog (MEIS1) mRNA
580	13360	25987	1.82	1.0E-105	AF032697.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
580	13360	25988	1.82	1.0E-105	AF032697.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
1814	14554	27268	0.91	1.0E-105	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
1919	14656	27366	1.93	1.0E-105	D50918.1	NT	Human mRNA for KIAA0128 gene, partial cds
2186	14915	27649	1.28	1.0E-105	AA518369.1	EST_HUMAN	EST20809 Spleen 1 Homo sapiens cDNA 5' end similar to autoimmune antigen Ku, p70/p80 subunit
2322	15047		1.44	1.0E-105	BE891768.1	EST_HUMAN	601434491F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919511 6'
3006	15772		2.89	1.0E-105	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
3348	16105	28759	0.88	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, ZB (BAZ2B), mRNA
3348	16105	28760	0.88	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, ZB (BAZ2B), mRNA
4077	16821	29447	2.07	1.0E-105	AW981688.1	EST_HUMAN	EST373761 MAGC resequences, MAGG Homo sapiens cDNA
4694	17428	30058	0.74	1.0E-105	BE868881.1	EST_HUMAN	601446823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5'
4694	17428	30059	0.74	1.0E-105	BE868881.1	EST_HUMAN	601446823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5'
4694	17428		4.24	1.0E-105	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
4694	17428		1.16	1.0E-105	AB071833.1	NT	Homo sapiens mRNA for KIAA0768 protein, partial cds
5043	17782	30377	0.94	1.0E-105	AW966015.1	EST_HUMAN	EST378088 MAGC resequences, MAGI Homo sapiens cDNA
5091	17810	30426	0.96	1.0E-105	AF0719704.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 2
5247	18063	30681	1.07	1.0E-105	11420134	NT	Homo sapiens Retha-derived POU-domain factor-1 (RPF-1), mRNA
6312	18116		2.16	1.0E-105	BF314302.1	EST_HUMAN	601801028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 5'
6804	19465	32485	2.16	1.0E-105	BF314302.1	EST_HUMAN	601801028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 5'
6804	19465	32486	3.65	1.0E-105	11419196	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6885	17961	30515	3.65	1.0E-105	11419196	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6885	17961	30516	0.83	1.0E-105	AW951694.1	EST_HUMAN	EST363688 MAGC resequences, MAGB Homo sapiens cDNA
6927	18683	32709	0.59	1.0E-105	BE902818.1	EST_HUMAN	601677276F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960019 5'
7184	18670	32944	0.65	1.0E-105	6806894	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
7722	20388	33500	0.97	1.0E-105	X12556.1	NT	Human mRNA for dbi proto-oncogene
7758	20454	33579				NT	

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7927	20622	33760	8.55	1.0E-105	T05087.1	EST_HUMAN	EST02975 Fetal brain, Stragelana (cat#036206) Homo sapiens cDNA clone HFBOR32
8297	20991	34129	1.41	1.0E-105	AW007194.1	EST_HUMAN	w50c10.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2500628 3' similar to SW:ACSA_PENCH P36833 ACETYL-COENZYME A SYNTHETASE ;
8828	21518	34653	0.88	1.0E-105	AW840817.1	EST_HUMAN	RC1-CN008-070100-011-e05 CN008 Homo sapiens cDNA
8948	21639	34786	2.82	1.0E-105	AW016879.1	EST_HUMAN	UHF-B10p-ah-b-12-0-JL.s1 NCI_CGAP_Sub2 Homo sapiens cDNA clone IMAGE:2711782 3'
9103	21791	34954	0.9	1.0E-105	AW882372.1	EST_HUMAN	QV2-OT0062-140300-083-009 OT0062 Homo sapiens cDNA
9487	22077	35247	0.9	1.0E-105	AW882372.1	EST_HUMAN	QV2-OT0062-140300-083-009 OT0062 Homo sapiens cDNA
9487	22077	35248	0.88	1.0E-105	BE887783.1	EST_HUMAN	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5'
10650	23531	36776	5.73	1.0E-105	BE887783.1	EST_HUMAN	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5'
11195	23880	37146	1.89	1.0E-105	AF254822.1	NT	Homo sapiens SMARCA4 isoform (SMARCA4) gene, complete cds, alternatively spliced
11250	23912	37204	2.38	1.0E-105	D63548.1	NT	Homo sapiens COL4A8 gene for $\alpha 8(V)$ collagen, exon 31
					7705938	NT	Homo sapiens Ran binding protein 11 (LOC51194), mRNA
11580	24179	37494	2.58	1.0E-105	AW027554.1	EST_HUMAN	wv7407.x1 Soares_Thymus_NHFT Homo sapiens cDNA clone IMAGE:2535301 3' similar to TR:P87862
							P87862 PROTEASE ;
11875	24270	37692	1.43	1.0E-105	BF430921.1	EST_HUMAN	7018c10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3574291 3' similar to TR:P97680 P97680
11831	24415	37763	1.73	1.0E-105	AB004924.1	NT	RIN1 ;
11831	24415	37754	1.73	1.0E-105	AB004924.1	NT	Homo sapiens gene for Smad 3, exon 2 and 3
147	12862		1.39	1.0E-106	AW503208.1	EST_HUMAN	Homo sapiens gene for Smad 3, exon 2 and 3
200	13013	25854	1.79	1.0E-106	AI565065.1	EST_HUMAN	UHF-BND-akt-g-07-0-JL.L1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3976348 5'
529	13313	25947	2.68	1.0E-106	AW965556.1	EST_HUMAN	tg79c01.x1 NCI_CGAP_Uh1 Homo sapiens cDNA clone IMAGE:2215008 3'
591	13371	26000	0.76	1.0E-106	J00146.1	NT	EST377629 MAGE resequences, MAGI Homo sapiens cDNA
592	13371	26000	2.06	1.0E-106	J00146.1	NT	Human dihydrofolate reductase pseudogene (psd-hd1)
1515	14262	26948	1.33	1.0E-106	AF145712.1	NT	Human dihydrofolate reductase pseudogene (psd-hd1)
1597	14440	27138	3.48	1.0E-106	U48724.1	NT	Homo sapiens soluble neuropilin-1 mRNA, complete cds
							Human epidermal growth factor receptor (EGFR) precursor-mRNA, exon 4, partial cds
1798	14538	27245	4.71	1.0E-106	AA827448.1	EST_HUMAN	ng41c05.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:397352 3' similar to contains element LTR3 repetitive element ;
							ng41c05.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:397352 3' similar to contains element
1798	14538	27246	4.71	1.0E-106	AA827448.1	EST_HUMAN	LTR3 repetitive element ;
2118	14849	27578	2.31	1.0E-106	BE144288.1	EST_HUMAN	MRO-HT0165-140200-008-d10 HT0165 Homo sapiens cDNA
2315	15040	27778	2.89	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2610	15322	28084	1.82	1.0E-106	BE260201.1	EST_HUMAN	601149783F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3902461 5'
2761	15468	28210	3.24	1.0E-106	AL276526.1	EST_HUMAN	q70h10.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1878307 3'
2828	14159	26842	1.91	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2828	14159	28843	1.91	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2942	15707	28357	5.23	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1328 protein, partial cds
2942	15707	28358	5.23	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1328 protein, partial cds
3178	16939	28588	2.18	1.0E-106	8822865	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3178	16939	28589	2.18	1.0E-106	8822865	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3387	16128	28784	0.81	1.0E-106	AB008881.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
3434	16180	28838	1.18	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3434	16180	28839	1.18	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
4017	16763	29391	7.95	1.0E-106	AW974650.1	EST_HUMAN	EST388875 MAGC resequences, MAGN Homo sapiens cDNA
4017	16763	29392	7.95	1.0E-106	AW974650.1	EST_HUMAN	EST388875 MAGC resequences, MAGN Homo sapiens cDNA
4035	16780	28410	1.05	1.0E-106	5729729	NT	Homo sapiens APIB-like 1 (APIB1), mRNA
4582	17297	28924	1.4	1.0E-106	BE144286.1	EST_HUMAN	MF01-HT0165-140200-008-410 HT0165 Homo sapiens cDNA
6135	17853	30468	1.09	1.0E-106	AL050253.1	NT	H. sapiens mRNA similar to D28763 mouse mRNA for seizure-related gene product 6. Shares domains with BMP's, Tollid, Sushi repeat proteins
5135	17853	30470	1.09	1.0E-106	AL050253.1	NT	H. sapiens mRNA similar to D28763 mouse mRNA for seizure-related gene product 6. Shares domains with BMP's, Tollid, Sushi repeat proteins
5285	18090	30750	2.61	1.0E-106	AA781155.1	EST_HUMAN	g24b08.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391225 3' similar to gb:U12433 PROTEIN PHPS1-2 (HUMAN);
5764	18555	31480	0.59	1.0E-106	AU130113.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
5764	18555	31481	0.59	1.0E-106	AU130113.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
5816	18605	31533	0.58	1.0E-106	AA434168.1	EST_HUMAN	zw28d12.s1 Soares ovary tumor NihHOT Homo sapiens cDNA clone IMAGE:770815 3'
5904	18689	31637	1.3	1.0E-106	AU143428.1	EST_HUMAN	AU143428 Y78AA1 Homo sapiens cDNA clone Y78AA1001912 5'
5904	18689	31638	1.3	1.0E-106	AU143428.1	EST_HUMAN	AU143428 Y78AA1 Homo sapiens cDNA clone Y78AA1001912 5'
6011	18792	31755	4.89	1.0E-106	BF678574.1	EST_HUMAN	602154012F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4285067 5'
6303	18882	31860	0.77	1.0E-106	BE897112.1	EST_HUMAN	601439670F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924641 5'
6325	19095	32083	17.66	1.0E-106	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6325	19095	32084	17.66	1.0E-106	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
7271	19955	33031	5.16	1.0E-106	AA683779.1	EST_HUMAN	es72607.s1 Strabagene schizo brain S11 Homo sapiens cDNA clone IMAGE:368732 3' similar to gb:U65973 KINESIN HEAVY CHAIN (HUMAN);
7324	20007	33084	5.33	1.0E-106	11428617	NT	Homo sapiens XPMC2 protein (LOC57109), mRNA
7402	20080	33161	1.21	1.0E-106	BE282722.1	EST_HUMAN	601105736F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988345 5'
7511	20182	33275	9.29	1.0E-106	11425503	NT	Homo sapiens sorting nexin 11 (SNX11), mRNA
7511	20182	33278	9.29	1.0E-106	11425503	NT	Homo sapiens sorting nexin 11 (SNX11), mRNA
7714	20378	33491	0.67	1.0E-106	AU116850.1	EST_HUMAN	AU116850 HEMBA1 Homo sapiens cDNA clone HEMBA1000129 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7884	20579	33707	6.44	1.0E-108	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
7884	20578	33708	6.44	1.0E-108	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
							ar68a07.x1 Barstead acorta HPLR86 Homo sapiens cDNA clone IMAGE:2127732 3' similar to gb:X06233
8074	20768	33897	1.38	1.0E-106	AI523068.1	EST_HUMAN	CALGRANULIN B (HUMAN);
8527	21219	34361	0.47	1.0E-108	BE387850.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
8527	21219	34362	0.47	1.0E-106	BE387850.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
							ty62a05.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2283632 3' similar to SW:ICAE6_HUMAN
8607	21289	34443	3.64	1.0E-108	AI654123.1	EST_HUMAN	Q05084.69 KD ISLET CELL AUTOANTIGEN;
8950	21641	34788	0.98	1.0E-106	AW838831.1	EST_HUMAN	CNAH-LT0059-150200-098-e06 LT0059 Homo sapiens cDNA
9045	21735	34889	3.28	1.0E-106	AA825307.1	EST_HUMAN	cc87e08.s1 NCL_CGAP_GC81 Homo sapiens cDNA clone IMAGE:1354790 3'
9045	21735	34890	3.28	1.0E-106	AA825307.1	EST_HUMAN	cc87e08.s1 NCL_CGAP_GC81 Homo sapiens cDNA clone IMAGE:1354790 3'
9186	21856	35021	1.28	1.0E-106	AI760447.1	EST_HUMAN	cm03a04.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NIHBC_cm03a04 random
9329	21866	35169	1.8	1.0E-106	AI760447.1	EST_HUMAN	tm41102.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.13
9329	21866	35170	1.8	1.0E-106	AI760447.1	EST_HUMAN	TAR1 PTR5 repetitive element;
9802	22551	35746	1.19	1.0E-106	BE389234.1	EST_HUMAN	tm41102.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.13
9884	22832	35841	1.09	1.0E-106	BF027310.1	EST_HUMAN	TAR1 PTR5 repetitive element;
9884	22832	35842	1.09	1.0E-106	BF027310.1	EST_HUMAN	TAR1 PTR5 repetitive element;
10141	22789	36003	6.22	1.0E-106	AA604417.1	EST_HUMAN	601282367F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:36044217 5'
10141	22789	36004	6.22	1.0E-106	AA604417.1	EST_HUMAN	601282367F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:36044217 5'
10185	22833	36047	1.6	1.0E-106	AW363299.1	EST_HUMAN	601671674F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954403 5'
10358	23005	36222	0.53	1.0E-106	AL039886.1	EST_HUMAN	601671674F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954403 5'
10479	23125	36354	2.81	1.0E-106	AL163202.2	NT	np57b10.s1 NCL_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1130395 3'
10812	23495	36730	7.1	1.0E-106	BF032755.1	EST_HUMAN	np57b10.s1 NCL_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1130395 3'
10812	23495	36731	7.1	1.0E-106	BF032755.1	EST_HUMAN	RC0-CT0318-201198-031-at1 CT0318 Homo sapiens cDNA
10895	23688	36825	2.22	1.0E-106	J05200.1	NT	DKFZp434F0712.1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434F0712 5'
10895	23688	36826	2.22	1.0E-106	J05200.1	NT	Homo sapiens chromosome 21 segment HS21C002
11384	23991	37292	1.91	1.0E-106	BE257385.1	EST_HUMAN	Human tyrosine receptor mRNA, complete cds
11532	24132	37436	1.35	1.0E-106	BE010882.1	EST_HUMAN	Human tyrosine receptor mRNA, complete cds
11532	24132	37437	1.35	1.0E-106	BE010882.1	EST_HUMAN	601109219F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3346987 5'
11981	25194	37694	6.77	1.0E-106	AW410405.1	EST_HUMAN	RC5-BN0192-100500-021-B02 BN0192 Homo sapiens cDNA
12193	24694	31068	3.32	1.0E-106	BE894488.1	EST_HUMAN	RC5-BN0192-100500-021-B02 BN0192 Homo sapiens cDNA
							fh05h11.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2861644 5'
							601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12183	24664	31069	3.32	1.0E-106	BE894488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
12408	24781		4.6	1.0E-106	BE685905.1	EST_HUMAN	RC1-GT0249-080800-024-d05 CT0249 Homo sapiens cDNA
228	13040		4.42	1.0E-107	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
258	13068		1.29	1.0E-107	X60450.1	NT	Human IFNAR gene for interferon alpha/beta receptor
607	13385		4.03	1.0E-107	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
616	13394	26028	1.89	1.0E-107	AF155103.1	NT	Homo sapiens NY-REN-25 antigen mRNA, partial cds
866	13635	26305	1.52	1.0E-107	X60450.1	NT	Human IFNAR gene for interferon alpha/beta receptor
948	13714	26379	11.55	1.0E-107	AF154121.1	NT	Homo sapiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA, complete cds
1255	14004	26673	0.73	1.0E-107	AB032253.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1562	14309	26896	3.77	1.0E-107	BF087405.1	EST_HUMAN	QV2-HT0540-120800-358-d05 HT0540 Homo sapiens cDNA
1746	14468	27167	1.55	1.0E-107	AF130275.1	NT	Homo sapiens cathepsin Z precursor (GTSZ) gene, exon 3
1832	14571	27263	0.99	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
1832	14571	27284	0.99	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
2205	14933	27671	0.95	1.0E-107	U13728.1	NT	Human dipeptidyl peptidase IV (CD26) gene, exon 20
2362	15084	27822	1.45	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
2362	15084	27823	1.45	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
2535	15250	27881	1.2	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
2535	15250	27882	1.2	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
3007	15773	28421	3.89	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
3007	15773	28422	3.89	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
3096	15961	28902	2.63	1.0E-107	5902097	NT	Homo sapiens SMT3 (suppressor of mit two 3, yeast) homolog 2 (SMT3H2), mRNA
3806	16558	29190	5.14	1.0E-107	AF020671.1	NT	Homo sapiens myotubularin (MTMT1) gene, exon 9
6537	18335	31242	0.86	1.0E-107	AW968038.1	EST_HUMAN	EST381115 IMAGE resequences, MAGK Homo sapiens cDNA
5775	18568	31495	3.2	1.0E-107	BE867469.1	EST_HUMAN	601442558F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846494 5'
6823	19484	32506	1.46	1.0E-107	11431469	NT	Homo sapiens general transcription factor IIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA
6823	19484	32507	1.45	1.0E-107	11431469	NT	Homo sapiens general transcription factor IIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA
7263	19947	33023	1.42	1.0E-107	AW503913.1	EST_HUMAN	UHLIF-BN0-af c-08-Q-UJ.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078310 5'
7263	19947	33024	1.42	1.0E-107	AW503913.1	EST_HUMAN	UHLIF-BN0-af c-08-Q-UJ.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078310 5'
7429	20108	33193	1.46	1.0E-107	AF765078.1	EST_HUMAN	wh56h04.x1 NC1_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2384791 3'
7690	20354	33469	0.6	1.0E-107	AW410981.1	EST_HUMAN	fr09d11.x2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2884624 5'
9267	22041	35213	0.95	1.0E-107	AU122469.1	EST_HUMAN	AU122469 MAMMA1 Homo sapiens cDNA clone MAMMA1002433 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10603	23297	36537	3.18	1.0E-107	A392850.1	EST_HUMAN	ig10003.x1 NCL_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2108363 3' similar to SW:AACT_DICDI
10866	23548	36794	14.28	1.0E-107	L49141.1	NT	P03095 ALPHA-ACTININ 3, NON MUSCULAR:
10860	23660	36807	1.71	1.0E-107	BF686511.1	EST_HUMAN	Homo sapiens neuroendocrine-specific protein (NSP) gene, exon 4
11293	23664	37252	6.66	1.0E-107	BE540550.1	EST_HUMAN	602123963F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4281039 5'
11367	23178	36405	5.97	1.0E-107	11418701	NT	601066681F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452829 5'
11367	23178	36408	5.97	1.0E-107	11418701	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
11843	24427	37768	1.36	1.0E-107	4506970	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
11843	24427	37769	1.36	1.0E-107	4506970	NT	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family), member 1 (SLC10A1) mRNA
12043	25328		5.86	1.0E-107	AA001415.1	EST_HUMAN	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family), member 1 (SLC10A1) mRNA
936	13702	26357	2.66	1.0E-108	BE286042.1	EST_HUMAN	z045601.s1 Soares retina N2b-4HR Homo sapiens cDNA clone IMAGE:361944 3' similar to contains THR.b1 THR repetitive element;
1242	13691	26657	1.87	1.0E-108	Y18000.1	NT	601177018F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532348 5'
						NT	Homo sapiens NF2 gene
2428	15149	27863	4.97	1.0E-108	BE206694.1	EST_HUMAN	bb25b10.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2863898 3' similar to gb:X63777 60S
3344	16103	28755	0.71	1.0E-108	AF032897.1	NT	RIBOSOMAL PROTEIN L23 (HUMAN); db:J05277 Mouse hexokinase mRNA, complete cds (MOLISE);
3344	16103	28766	0.71	1.0E-108	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4136	16878	29507	1.14	1.0E-108	AW684438.1	EST_HUMAN	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4489	17225	29853	2.18	1.0E-108	U72961.1	NT	ht12a11.x1 NCL_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2872060 3' similar to SW:3BP1_MOUSE
4489	17225	29854	2.18	1.0E-108	U72961.1	NT	P55194 SH3-BINDING PROTEIN 3BP-1;
4782	17484	30113	1.74	1.0E-108	7661979	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4806	17623	30241	2.8	1.0E-108	AJ008005.1	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
5391	19191	30863	1.15	1.0E-108	AW394094.1	EST_HUMAN	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5440	19239	30954	1.7	1.0E-108	BE5869018.1	EST_HUMAN	Homo sapiens PSN1 gene, alternative transcript
5440	19239	30955	1.7	1.0E-108	BE5869018.1	EST_HUMAN	RCO-HT0372-241189-031-303 HT0372 Homo sapiens cDNA
5837	18628		0.89	1.0E-108	AF012823.1	NT	601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'
6048	18828	31790	6.13	1.0E-108	AF264717.1	NT	601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'
6048	18828	31791	6.13	1.0E-108	AF264717.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 20
						NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
						NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6169	18946	31918	1.27	1.0E-108	AJ133269.1	NT	Homo sapiens caveolin-1/2 locus, Contig1, D7S822, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
6265	18997	31660	0.92	1.0E-108	BF334851.1	EST_HUMAN	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA
6621	18287	32290	0.63	1.0E-108	AF016708.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
6621	18287	32291	0.63	1.0E-108	AF016708.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
7057	18748	32811	5.82	1.0E-108	11431857	NT	Homo sapiens G protein-coupled receptor, family C, group 5, member B (GPRC5B), mRNA
7339	20020	33098	3.55	1.0E-108	4759333	NT	Homo sapiens delta-6 fatty acid desaturase (FADS2) mRNA
7377	20057	33137	1.16	1.0E-108	BE262807.1	EST_HUMAN	601113471F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3354084 5'
7405	20082	33184	0.84	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCJ_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4181037 5'
7405	20082	33185	0.84	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCJ_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4181037 5'
7863	20658		1.68	1.0E-108	AF083500.1	NT	Homo sapiens connective tissue growth factor-like protein precursor, mRNA, complete cds
8014	20709	33838	0.48	1.0E-108	AW408894.1	EST_HUMAN	UHF-BM0-ads-e-12-0-UI.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
8014	20709	33839	0.48	1.0E-108	AW408894.1	EST_HUMAN	UHF-BM0-ads-e-12-0-UI.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
8945	21636	34781	0.75	1.0E-108	AF203977.1	NT	Homo sapiens ETS-family transcription factor EHF (EHF) mRNA, complete cds
8984	21874	34823	0.54	1.0E-108	N44974.1	EST_HUMAN	Y65h10.1 Soares melanocyte 2NblHM Homo sapiens cDNA clone IMAGE:273283 5' similar to PIRA46773
10565	20368	33481	1.73	1.0E-108	BE635227.1	EST_HUMAN	A45773 kelch protein, long form - fruit fly
10731	17811	30597	1.98	1.0E-108	Y12490.1	NT	Homo sapiens mRNA for Gdgl-associated microtubule-binding protein (GMAP-210)
10998	23671	36628	1.39	1.0E-108	AF223391.1	NT	Homo sapiens calcium channel subunit alpha1E (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11239	23902	37191	3.82	1.0E-108	AW966185.1	EST_HUMAN	EST378288 MAGE resequencing, MAGI Homo sapiens cDNA
11284	23955	37253	2.2	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAEE03 5'
11294	23955	37254	2.2	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAEE03 5'
11343	24033		1.97	1.0E-108	11441465	NT	Homo sapiens G protein-coupled receptor 48 (GPR48), mRNA
11405	24054	37359	1.98	1.0E-108	D63539.1	NT	Homo sapiens COL4A6 gene for alpha(IV) collagen, exon 23
12204	24671	31072	2.41	1.0E-108	AK024447.1	NT	Homo sapiens mRNA for FLJ00037 protein, partial cds
12563	24906		8.32	1.0E-108	BF346350.1	EST_HUMAN	602018571F1 NCJ_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4154297 5'
41	12859	25488	0.87	1.0E-109	AW603118.1	EST_HUMAN	IL2-UM0077-280400-079-D06 UM0077 Homo sapiens cDNA
62	12890	25523	0.97	1.0E-109	D66974.1	NT	Human mRNA for KIAA0220 gene, partial cds
220	13031	26667	1.59	1.0E-109	11438391	NT	Homo sapiens reticulocalbin 1, EF-hand calcium binding domain (RCN1), mRNA
454	13240	25878	6.69	1.0E-109	4507712	NT	Homo sapiens tetrapeptide repeat domain 2 (TTC2) mRNA
594	13364	25992	26.8	1.0E-109	AB023218.1	NT	Homo sapiens mRNA for KIAA0899 protein, partial cds
594	13364	26693	26.8	1.0E-109	AB023218.1	NT	Homo sapiens mRNA for KIAA0899 protein, partial cds
1180	13933	26568	10.97	1.0E-109	M28698.1	NT	Homo sapiens nuclear phosphoprotein B23 (NPM1) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1181	13633	26598	4	1.0E-109	M28089.1	NT	Homo sapiens nuclear phosphoprotein B23 (NPM1) mRNA, complete cds
1533	14280	26967	3.31	1.0E-109	BE283673.1	EST_HUMAN	601186822F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
1533	14280	26968	3.31	1.0E-109	BE283673.1	EST_HUMAN	601186822F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
1867	14605	27315	3.3	1.0E-109	D13643.2	NT	Homo sapiens mRNA for KIAA0018 protein, partial cds
2237	14965	27705	1.78	1.0E-109	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
2248	14976	27714	1.89	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
2628	15340	28084	3.98	1.0E-109	AI022328.1	EST_HUMAN	ow95a01.x1 Soares fetal liver spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654636 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN.;
2628	15340	28085	3.98	1.0E-109	AI022328.1	EST_HUMAN	ow95a01.x1 Soares fetal liver spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654636 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN.;
2629	15341	28086	2.07	1.0E-109	4504208	NT	Homo sapiens guanylate cyclase activator 1A (retina) (GUCY1A) mRNA
3054	15820	28484	2.22	1.0E-109	N85190.1	EST_HUMAN	J2816F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J2816 5' similar to ZINC FINGER PROTEIN ZNF-43
3383	16142	28799	3.14	1.0E-109	AW693192.1	EST_HUMAN	CM3-NN0009-190400-150-f10 NN0009 Homo sapiens cDNA
3383	16142	28800	3.14	1.0E-109	AW693192.1	EST_HUMAN	CM3-NN0009-190400-150-f10 NN0009 Homo sapiens cDNA
3508	16264	28918	1.21	1.0E-109	AF240698.1	NT	Homo sapiens retinal dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3548	16303	28963	0.9	1.0E-109	M37828.1	NT	Homo sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3548	16303	28964	0.9	1.0E-109	M37828.1	NT	Homo sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3823	16575	29357	2.59	1.0E-109	BE148144.1	EST_HUMAN	MR0-HT0209-110400-108-s04 HT0209 Homo sapiens cDNA
3974	16723	29357	1.42	1.0E-109	AB011181.2	NT	Homo sapiens mRNA for KIAA0609 protein, partial cds
3974	16723	29358	1.42	1.0E-109	AB011181.2	NT	Homo sapiens mRNA for KIAA0609 protein, partial cds
4127	16889	29497	3.88	1.0E-109	AI655417.1	EST_HUMAN	ts98a06.x1 NCJ_CGAP_G08 Homo sapiens cDNA clone IMAGE:2239330 3' similar to WP:FS3A2.8 CE16100;
4141	16883	29512	1.02	1.0E-109	AA66274.1	EST_HUMAN	ru63ct12.s1 NCJ_CGAP_P722 Homo sapiens cDNA clone IMAGE:1218282 3' similar to SW:GTT2_HUMAN
4141	16883	29513	1.02	1.0E-109	AA66274.1	EST_HUMAN	P30712 GLUTATHIONE S-TRANSFERASE THETA 2;
4371	17109	29744	2.48	1.0E-109	4504208	NT	ru63ct12.s1 NCJ_CGAP_P722 Homo sapiens cDNA clone IMAGE:1218282 3' similar to SW:GTT2_HUMAN
4561	17296	29923	1.69	1.0E-109	7682083	NT	P30712 GLUTATHIONE S-TRANSFERASE THETA 2;
4867	17595	30218	1.27	1.0E-109	R15400.1	EST_HUMAN	Homo sapiens KIAA0377 gene product (KIAA0377), mRNA
4992	17715	30320	1.39	1.0E-109	BE283673.1	EST_HUMAN	ye48e06.l1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:53057 5'
4992	17715	30321	1.39	1.0E-109	BE283673.1	EST_HUMAN	601186822F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
5167	17976	30534	0.81	1.0E-109	AU137282.1	EST_HUMAN	601186822F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
5179	17988	30503	1.06	1.0E-109	BF673718.1	EST_HUMAN	AU137282 PLACE1 Homo sapiens cDNA clone PLACE1006159 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5230	18036	30662	3.09	1.0E-109	5174622	NT	Homo sapiens placental protein 11 (serine proteinase) (P11) mRNA
5620	18318		1.11	1.0E-109	BE178356.1	EST_HUMAN	RC1-HT0815-200400-022-d04 HT0815 Homo sapiens cDNA
5838	25078	31560	0.64	1.0E-109	BF379688.1	EST_HUMAN	CM1-JT0039-060900-399-h07 UT0038 Homo sapiens cDNA
6807	18318		1.6	1.0E-109	BE178356.1	EST_HUMAN	RC1-HT0815-200400-022-d04 HT0815 Homo sapiens cDNA
7140	18827	32898	0.97	1.0E-109	AB046811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
7464	20138	33230	3.99	1.0E-109	11432574	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
7468	20140	33232	6.28	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
7468	20140	33233	5.28	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
7674	20338	33451	0.67	1.0E-109	BE263297.1	EST_HUMAN	601145017F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3180229 5'
8073	20767	33898	1.48	1.0E-109	AL046784.1	NT	Novel human gene mapping to chromosome 13
8183	20877	34014	0.89	1.0E-109	AW749130.1	EST_HUMAN	PMO-BT0340-081289-002-405 BT0340 Homo sapiens cDNA
8555	21247		2.77	1.0E-109	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
8633	21325	34466	8.42	1.0E-109	BE787540.1	EST_HUMAN	601478417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
8633	21325	34467	8.42	1.0E-109	BE787540.1	EST_HUMAN	601478417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
8876	21567	34711	0.56	1.0E-109	BE145672.1	EST_HUMAN	IL0-HT0205-071189-142-g01 HT0205 Homo sapiens cDNA
9137	21825	34980	1.91	1.0E-109	H84860.1	EST_HUMAN	ys90g08.11 Soares retina N285-IR Homo sapiens cDNA clone IMAGE:222110 5' similar to SP-A53491
9250	21829	35101	0.63	1.0E-109	BE397068.1	EST_HUMAN	A53491 BUMETANIDE-SENSITIVE NA-K-Cl COTRANSPORTER - SPINY;
9250	21829	35102	0.63	1.0E-109	BE397068.1	EST_HUMAN	601289780F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 5'
9384	22048	35218	2.04	1.0E-109	FO6604.1	EST_HUMAN	601289780F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 5'
10673	23364	36606	1.71	1.0E-109	BE540909.1	EST_HUMAN	HSC1EC121 normalized infant brain cDNA Homo sapiens cDNA clone c-1ec12
10673	23364	36607	1.71	1.0E-109	BE540909.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449589 5'
10710	23399	36838	15.79	1.0E-109	BF694831.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449589 5'
10888	23568	36818	1.55	1.0E-109		NT	602080724F2 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4245341 5'
10888	23568	36819	1.55	1.0E-109		NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
11069	23739	37013	1.8	1.0E-109	AU121370.1	EST_HUMAN	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
11342	24032	37336	2.72	1.0E-109	4502838	NT	AU121370 HEMBB1 Homo sapiens cDNA clone HEMBB1002680 5'
11383	23680	37291	11.6	1.0E-109	W16510.1	EST_HUMAN	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
11685	24280	37602	1.46	1.0E-109	11418618	NT	zb08612.1 Soares fetal lung_NHL 18W Homo sapiens cDNA clone IMAGE:301439 5' similar to
11848	24432	37773	1.27	1.0E-109	BF339540.1	EST_HUMAN	PIR-S43969 S43969 p64-beta stress-activated protein kinases - rat;
11848	24432	37774	1.27	1.0E-109	BF339540.1	EST_HUMAN	Homo sapiens single-minded (Drosophila) homolog 1 (SIM1), mRNA
12112	14978	27714	2.1	1.0E-109	Y17123.1	NT	602039003F1 NCI_CGAP_Brt64 Homo sapiens cDNA clone IMAGE:4186753 5'
12328	14976	27714	2.73	1.0E-109	Y17123.1	NT	602039003F1 NCI_CGAP_Brt64 Homo sapiens cDNA clone IMAGE:4186753 5'
							Homo sapiens SNF5/INI1 gene, exon 6
							Homo sapiens SNF5/INI1 gene, exon 6

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12443	24813	31047	2.08	1.0E-108	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
3	12831	25444	1.65	1.0E-110	7549804	NT	Homo sapiens deiodinase, lodothyronine, type II (DIO2), transcript variant 2, mRNA
36	12884	25482	4.71	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
36	12884	25483	4.71	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
79	12805	25543	0.7	1.0E-110	C04498.1	EST_HUMAN	C04498 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NH03467
107	12831	25444	2.28	1.0E-110	7549804	NT	Homo sapiens deiodinase, lodothyronine, type II (DIO2), transcript variant 2, mRNA
514	13298	25930	1.54	1.0E-110	U84550.1	NT	Human dystrobrevin (DTN) gene, exon 20
1157	13912	26575	0.8	1.0E-110	5031620	NT	Homo sapiens calcitriol receptor-like (CALORL) mRNA
1256	14006	26574	0.8	1.0E-110	AB032263.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1914	14651	27381	1.19	1.0E-110	BE379477.1	EST_HUMAN	601237545F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609883 5'
2051	14794		1.6	1.0E-110	BF508896.1	EST_HUMAN	U1H-B14-acc-b-05-0-U1.st NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
2845	15613		1	1.0E-110	4503088	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
3189	15952	28603	1.49	1.0E-110	11438041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
3189	15952	28604	1.49	1.0E-110	11438041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
4031	16776	28407	1.09	1.0E-110	BE018558.1	EST_HUMAN	b682a06.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048948 5' similar to TR:060312 O60312
4591	17328	29851	2.14	1.0E-110	AD17213.1	EST_HUMAN	KIA0568 PROTEIN :
4608	17341	29872	3.9	1.0E-110	AU117812.1	EST_HUMAN	0032b10.x1 Soares_NRL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627963 3' similar to SW:N121 RAT P62591 NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 ;
4916	17644		2.7	1.0E-110	7662441	NT	AU117812 HEMBA1 Homo sapiens cDNA clone HEMBA1002241 5'
5212	18020	30642	2.63	1.0E-110	BE299406.1	EST_HUMAN	Homo sapiens KIAA1002 protein (KIAA1002), mRNA
5639	18434	31347	0.8	1.0E-110	BE621069.1	EST_HUMAN	601118710F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028538 5'
5656	18451	31364	8.61	1.0E-110	11419323	NT	601483877F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3885785 5'
5656	18451	31365	8.61	1.0E-110	11419323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
6617	25098	32395	8.08	1.0E-110	M55112.1	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
7002	19684	32746	0.8	1.0E-110	U08888.1	NT	Homo sapiens cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 7
7002	19684	32747	0.8	1.0E-110	U08888.1	NT	Human GS2 gene, exon 2
7224	19808	32983	0.74	1.0E-110	AI660289.1	EST_HUMAN	Human GS2 gene, exon 2
7325	20008	33085	6.9	1.0E-110	AV714276.1	EST_HUMAN	tn12408.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167407 3' similar to SW:ETV1_HUMAN
7325	20008	33086	6.9	1.0E-110	AV714276.1	EST_HUMAN	P50549 ETS TRANSLOCATION VARIANT 1 ;
7355	20036	33114	3.21	1.0E-110	AB020675.1	NT	AV714276 DCB Homo sapiens cDNA clone DCB03E01 5'
7469	20143	33235	0.83	1.0E-110	AU137823.1	EST_HUMAN	AV714276 DCB Homo sapiens cDNA clone DCB03E01 5'

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9234	21913	35087	7.88	1.0E-110	BE302594.1	EST_HUMAN	h68801.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2305561 5' similar to TR:O77258 O77258
9476	22129	36308	2.39	1.0E-110	AW836394.1	EST_HUMAN	EG:114D9.2 PROTEIN.;
10221	22669	36081	3.45	1.0E-110	11432732	NT	QV2-L10053-020400-119-e04 LT0053 Homo sapiens cDNA
10848	23339	36578	3.64	1.0E-110	Y12337.1	NT	Homo sapiens galactokinase 2 (GALK2), mRNA
10887	23567	36816	3.75	1.0E-110	BE794357.1	EST_HUMAN	H. sapiens mRNA for myotonic dystrophy protein kinase like protein
10887	23567	36817	3.75	1.0E-110	BE794357.1	EST_HUMAN	601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
							601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
							zw67g02r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781298 5' similar to TR:G1145816
							G1145816 FKBP54;
11420	23187	36418	2.45	1.0E-110	AA446528.1	EST_HUMAN	601439784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924548 5'
11839	24498		4.64	1.0E-110	BE897218.1	EST_HUMAN	IL0-BT0163-040899-094-g10 BT0163 Homo sapiens cDNA
12061	24576		11.71	1.0E-110	AW062258.1	EST_HUMAN	Homo sapiens gene for AF-6, complete cds
12290	24720		1.44	1.0E-110	AB011393.1	NT	qnc31c12.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1711222 3'
12346	24753		1.35	1.0E-110	AF127761.1	EST_HUMAN	PM3-NN1082-140900-006-f12 NN1082 Homo sapiens cDNA
12429	25339		3.25	1.0E-110	BF394546.1	EST_HUMAN	UHH-BI4-aos-b-05-0-U1.s1 NCJ_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
12701	14784		1.45	1.0E-110	BF508808.1	EST_HUMAN	Human ribosomal protein L23a mRNA, complete cds
170	12983		10.84	1.0E-111	U43701.1	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
191	13004	25645	1.05	1.0E-111	4758807	NT	601458531F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862086 5'
718	13492		2.38	1.0E-111	BF036327.1	EST_HUMAN	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
726	13500	26154	5.13	1.0E-111	8393092	NT	Human cardiac alpha-myosin heavy chain (MYH6) gene, exons 32 to 34
906	13673	26338	3.82	1.0E-111	M25142.1	NT	Homo sapiens KIAA0555 gene product (KIAA0555), mRNA
1624	14371	27080	1.43	1.0E-111	7682177	NT	Homo sapiens collagen type IX alpha 1 chain (COL9A1) gene, exons 28, 30, 31, and 32
2234	14982	27701	1.02	1.0E-111	AF036126.1	NT	Homo sapiens DKFZP434D156 protein (DKFZP434D156), mRNA
4150	16892	28522	1.08	1.0E-111	7661569	NT	Homo sapiens DKFZP434D156 protein (DKFZP434D156), mRNA
4295	17034	29662	4.38	1.0E-111	K02268.1	NT	Human enkephalin B (enkb) gene, exon 4 and 3' flank and complete cds
4691	17425	30057	8.36	1.0E-111	4505778	NT	Homo sapiens phosphatase kinase, alpha 1 (muscle) (PHKA1), mRNA
5544	18341	31249	1.09	1.0E-111	BE5867909.1	EST_HUMAN	Homo sapiens phosphatase kinase, alpha 1 (muscle) (PHKA1), mRNA
							601443590F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3947655 5'
							qp08g12.x1 NCJ_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1817674 3' similar to gb:M26883 RAS-RELATED PROTEIN RAL-A (HUMAN);
5942	18724	31683	1.88	1.0E-111	A844676.1	EST_HUMAN	DKFZp484C1815_1 434 (synonym: htae3) Homo sapiens cDNA clone DKFZp484C1815 5'
6590	18943	32357	1.16	1.0E-111	AL040762.1	EST_HUMAN	UHH-BW0-af-d-03-0-U1.s1 NCJ_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729525 3'
6709	19524	32668	1.06	1.0E-111	AW294648.1	EST_HUMAN	IL2-NT0101-280700-114-E03 NT0101 Homo sapiens cDNA
7347	20028	33104	2.89	1.0E-111	BF366228.1	EST_HUMAN	w688d01.x1 NCJ_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398465 3' similar to gb:J04813
7433	20110	33188	0.62	1.0E-111	A1761228.1	EST_HUMAN	CYTOTOCHROME P450 IIA5 (HUMAN);

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7514	20185	33279	0.6	1.0E-111	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (smn) genes, complete cds
7893	20688	33815	0.73	1.0E-111	AA278868.1	EST_HUMAN	zs78g03.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1266410
7893	20688	33816	0.73	1.0E-111	AA278868.1	EST_HUMAN	G1266410 11-ZINC-FINGER TRANSCRIPTION FACTOR.;
8088	20782	33912	0.62	1.0E-111	11431896	NT	G1266410 11-ZINC-FINGER TRANSCRIPTION FACTOR.;
8139	20833	33967	3.28	1.0E-111	U66533.1	NT	Homo sapiens protein x 0001 (LOC61185), mRNA
8570	21271	34409	0.79	1.0E-111	11420516	NT	Homo sapiens beta4-integrin (ITGB4) gene, exon 13
8674	21368	34513	0.73	1.0E-111	AK024453.1	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
8707	21369		1.57	1.0E-111	AF177887.1	NT	Homo sapiens mRNA for FLJ00045 protein, partial cds
8708	21400		6.65	1.0E-111	BF214902.1	EST_HUMAN	Homo sapiens cone sodium-calcium potassium exchanger splice variant (NCKX) mRNA, complete cds
8782	21474	34620	12.9	1.0E-111	X17033.1	NT	G01847132F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4078303 5'
8782	21474	34621	12.9	1.0E-111	X17033.1	NT	Human mRNA for Integrin alpha-2 subunit
8888	21876	34825	2.8	1.0E-111	AF091395.1	NT	Human mRNA for Integrin alpha-2 subunit
9217	21896	35068	0.49	1.0E-111	BF333210.1	EST_HUMAN	Homo sapiens Trho isoform mRNA, complete cds
10052	22700	35917	3.21	1.0E-111	AA604160.1	EST_HUMAN	QV2-BT0817-270800-398-e08 BT0817 Homo sapiens cDNA
10080	22728		2.4	1.0E-111	D10083.1	NT	aa58g02.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:825170 3' similar to gb:109235
10172	22820	36038	5.24	1.0E-111	AA131248.1	EST_HUMAN	VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A, UBIQUITOUS (HUMAN);
10973	23649	36902	4.25	1.0E-111	U68159.1	NT	Human sapiens RGH1 gene, retrovirus-like element
11466	24068	37376	2.74	1.0E-111	A1761071.1	EST_HUMAN	z51f01.r1 Scores_pregnant_uterus_Nb1fpu Homo sapiens cDNA clone IMAGE:503545 5'
11897	24464	37802	3.72	1.0E-111	11417901	NT	Human thrombopoietin receptor (MPL) gene, exons 1,2,3,4,5 and 6
12424	24800	31040	1.51	1.0E-111	AV708482.1	EST_HUMAN	cn07a11.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn07a11 random
12672	17914	30589	1.56	1.0E-111	AB035358.1	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MNT), mRNA
594	13372	26001	1.29	1.0E-112	4501854	NT	AV708482 ADC Homo sapiens cDNA clone ADCAOB08 5'
596	13374	26003	12.55	1.0E-112	U29103.1	NT	Homo sapiens mRNA for neuritin I-alpha protein, complete cds
596	13374	26004	12.55	1.0E-112	U29103.1	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
617	13385	26029	1.86	1.0E-112	BF509039.1	EST_HUMAN	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
617	13385	26030	1.86	1.0E-112	BF509039.1	EST_HUMAN	Human steroidogenic acute regulatory protein (STAR) gene, exon 5
981	13746	26408	8.84	1.0E-112	AF157623.1	NT	UHH-B14-eot-g-04-0-J1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
1040	13800	26458	2.2	1.0E-112	P52742	SWISSPROT	UHH-B14-eot-g-04-0-J1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
							Homo sapiens HTA1A serine protease (PRSS11) gene, complete cds
							ZINC FINGER PROTEIN 135

Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1679	14423	27117	4.39	1.0E-112	7682125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
1679	14423	27118	4.39	1.0E-112	7682125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2194	14923	27657	1.37	1.0E-112	AF768925.1	EST_HUMAN	wis0008.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400811 3'
2512	16229	27659	1.1	1.0E-112	BE86859.1	EST_HUMAN	601442874F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846858 5'
3076	15842		1.15	1.0E-112	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3355	16115	28770	0.7	1.0E-112	AB28511.1	EST_HUMAN	wk45b12.x1 NCI_CGAP_P222 Homo sapiens cDNA clone IMAGE:2418336 3' similar to gb:U81650_mai
3884	16614	28253	0.74	1.0E-112	BE076073.1	EST_HUMAN	SEMNVOGELIN 1 PROTEIN PRECURSOR (HUMAN);
4565	17300	29927	1.39	1.0E-112	4504116	NT	MR2-BT0580-090300-113-09 BT0580 Homo sapiens cDNA
4704	17437	30068	4.9	1.0E-112	AB037832.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4704	17437	30069	4.9	1.0E-112	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
5581	18378	31291	40.71	1.0E-112	N46046.1	EST_HUMAN	Homo sapiens mRNA for KIAA1411 protein, partial cds
5985	18766	31730	1.04	1.0E-112	AF149773.1	NT	y955d07.1 Scores melanocyte 2N5bHM Homo sapiens cDNA clone IMAGE:273229 5'
6155	18832	31899	1.43	1.0E-112	BE741666.1	EST_HUMAN	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6569	19138	32134	0.89	1.0E-112	BF672815.1	EST_HUMAN	601584717F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948557 5'
6539	19304	32308	0.71	1.0E-112	BE273103.1	EST_HUMAN	602152649F1 NIH_MGC_B1 Homo sapiens cDNA clone IMAGE:4293420 5'
6539	19304	32309	0.71	1.0E-112	BE273103.1	EST_HUMAN	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506508 5'
6741	19575	32607	1.13	1.0E-112	BF574235.1	EST_HUMAN	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506508 5'
7236	19921	32995	1.87	1.0E-112	11416777	NT	602131405F1 NIH_MGC_B1 Homo sapiens cDNA clone IMAGE:4270921 5'
7236	19921	32996	1.87	1.0E-112	11416777	NT	Homo sapiens solute carrier family 9 (neurotransmitter transporter, L-proline), member 7 (SLC9A7), mRNA
7729	25120	33507	0.56	1.0E-112	BF213358.1	EST_HUMAN	Homo sapiens solute carrier family 9 (neurotransmitter transporter, L-proline), member 7 (SLC9A7), mRNA
8093	20787	33919	1.73	1.0E-112	AU118051.1	EST_HUMAN	601845089F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4070302 5'
8856	21547	34694	2.09	1.0E-112	BE867635.1	EST_HUMAN	AU118051 HEMBA1 Homo sapiens cDNA clone HEMBA1002773 5'
8856	21547	34695	2.09	1.0E-112	BE867635.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
8783	22444	35849	2.15	1.0E-112	BF111413.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
10677	23358	36611	2.86	1.0E-112	AW863327.1	EST_HUMAN	730907.x1 Scores NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3523020 3' similar to
10868	23548	36796	3.37	1.0E-112	AJ249900.1	NT	TR-Q8VW35 Q8VW35 CQ3743 PROTEIN;
11040	23711	36981	1.92	1.0E-112	BE280479.1	EST_HUMAN	MR3-SN008-100400-106-b12 SN008 Homo sapiens cDNA
11109	23779	37053	1.59	1.0E-112	AI782603.1	EST_HUMAN	Homo sapiens mRNA for secreted modular calcium-binding protein (smoc1 gene)
							601155323F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138989 5'
							ql24c08.y6 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1868902 5' similar to TR-Q64362 Q64362
							FUSED TOES;

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11109	23779	37054	1.59	1.0E-112	A1792603.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362
11139	23808	37085	6.6	1.0E-112	AW377670.1	EST_HUMAN	FUSED TOES ;
							PMO-CT0237-141099-001-102 CT0237 Homo sapiens cDNA
11810	24399	37734	1.92	1.0E-112	A1792603.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362
							FUSED TOES ;
11810	24399	37735	1.92	1.0E-112	A1792603.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362
725	13499	26152	5.37	1.0E-113	A1365588.1	EST_HUMAN	FUSED TOES ;
725	13499	26153	5.37	1.0E-113	A1365588.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362
821	13688	26352	7.99	1.0E-113	M11985.1	NT	FUSED TOES ;
1532	14279	26868	2.68	1.0E-113	A1365588.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362
1832	15524	27382	1.44	1.0E-113	AF240775.1	NT	FUSED TOES ;
2088	14820	27551	1.02	1.0E-113	BF16218.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362
2458	15174	27913	28.34	1.0E-113	AJ008976.1	NT	FUSED TOES ;
3127	15982	28536	1.92	1.0E-113	AJ223048.1	NT	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362
4968	17691	30300	0.91	1.0E-113	D85606.1	NT	FUSED TOES ;
5008	17731	30335	2.16	1.0E-113	5453562	NT	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362
5165	25178	30336	2.16	1.0E-113	5453562	NT	FUSED TOES ;
5405	18205	30909	2.97	1.0E-113	BE780958.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362
5832	18621	31554	7.68	1.0E-113	AU127214.1	EST_HUMAN	FUSED TOES ;
5861	18648	31589	4.17	1.0E-113	AU140291.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362
			1.47	1.0E-113	AF16635.1	NT	FUSED TOES ;
5879	18761	31725	2.62	1.0E-113	11528737	NT	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362
6084	18943	31806	0.68	1.0E-113	9961249	NT	FUSED TOES ;
6084	18943	31807	0.68	1.0E-113	9961249	NT	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362
6224	18988	31974	0.8	1.0E-113	6006002	NT	FUSED TOES ;
6224	18988	31975	0.8	1.0E-113	6006002	NT	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362
7221	18906	32979	0.78	1.0E-113	BE262161.1	EST_HUMAN	FUSED TOES ;
7221	18906	32980	0.78	1.0E-113	BE262161.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362
7573	20242	33347	0.58	1.0E-113	AW958960.1	EST_HUMAN	FUSED TOES ;
8790	21482	34629	0.46	1.0E-113	8922819	NT	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869802 5' similar to TR:Q64362 Q64362

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8982	21682	34830	3.06	1.0E-113	BE382842.1	EST_HUMAN	601287709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
8982	21682	34831	3.06	1.0E-113	BE382842.1	EST_HUMAN	601287709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
9301	21688		0.93	1.0E-113	BE772867.1	EST_HUMAN	RC1-F10134-280600-021-02 F10134 Homo sapiens cDNA
9730	22381	35583	1.4	1.0E-113	11428367	NT	Homo sapiens transmembrane protein 2 (TMEM2), mRNA
9830	22481	35683	0.45	1.0E-113	M21535.1	NT	Human erg protein (ets-related gene) mRNA, complete cds
9950	22598	35802	0.81	1.0E-113	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
9950	22598	35803	0.81	1.0E-113	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10514	23160	36388	0.61	1.0E-113	AW500517.1	EST_HUMAN	U1-HF-BNO-44-b-10-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077322 5'
10516	23161	36387	0.55	1.0E-113	BF691687.1	EST_HUMAN	602247740F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4333280 5'
10516	23161	36388	0.55	1.0E-113	BF691687.1	EST_HUMAN	602247740F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4333280 5'
11067	23737	37011	1.83	1.0E-113	AW500519.1	EST_HUMAN	U1-HF-BNO-44-b-12-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077326 5'
11076	23746	37019	2.84	1.0E-113	AW630291.1	EST_HUMAN	hh81a09.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2869178 5' similar to TR:O60327 O60327 KIAA0584 PROTEIN ;
11076	23746	37020	2.84	1.0E-113	AW630291.1	EST_HUMAN	hh81a09.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2869178 5' similar to TR:O60327 O60327 KIAA0584 PROTEIN ;
11181	18998	31974	1.39	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11181	18998	31975	1.39	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11227	23890	37177	2.81	1.0E-113	BE292868.1	EST_HUMAN	601105529F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988366 5'
11481	24082	37393	1.32	1.0E-113	AA580720.1	EST_HUMAN	nc80303.r1 NCI_CGAP_GC1 Homo sapiens cDNA clone IMAGE:797069 5' similar to SW:FEN1_HUMAN P39748 FLAP ENDONUCLEASE-1 ;
11481	24082	37394	1.32	1.0E-113	AA580720.1	EST_HUMAN	nc80303.r1 NCI_CGAP_GC1 Homo sapiens cDNA clone IMAGE:797069 5' similar to SW:FEN1_HUMAN P39748 FLAP ENDONUCLEASE-1 ;
630	13409	28045	6.8	1.0E-114	T70551.1	EST_HUMAN	yd15c01.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108288 3' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN); contains Alu repetitive element
1049	13608	28468	1.7	1.0E-114	8823087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1290	14039	26712	5.09	1.0E-114	7657528	NT	Homo sapiens ribobold tumor deletion region protein 1 (RTDR1), mRNA
1667	14413	27104	4.27	1.0E-114	6678073	NT	Homo sapiens nucleoporin-like protein 1 (NLP_1), mRNA
2807	12871	25491	1.28	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
2807	12871	25492	1.28	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3128	15993	28537	2.75	1.0E-114	X04086.1	NT	Human gene for cathepsin (EC 1.11.1.6) exon 2 mapping to chromosome 11, band p13
3169	15932	28581	1.02	1.0E-114	BF206374.1	EST_HUMAN	601869392F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4100214 5'
3997	16745	28977	2.61	1.0E-114	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
4358	17096	29731	0.72	1.0E-114	J03171.1	NT	Human interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5064	17783	30400	1.05	1.0E-114	BE275324.1	EST_HUMAN	601122173F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346089 5'
5315	18119	30775	1.26	1.0E-114	4508880	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
6315	18119	30776	1.26	1.0E-114	4508880	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5508	18308	31207	0.97	1.0E-114	9257201	NT	Homo sapiens clathrin, heavy polypeptide-like 1 (CLTCL1), transcript variant 2, mRNA
6134	18812	31881	0.84	1.0E-114	Z26288.1	NT	H. sapiens isoform 1 gene for L-type calcium channel, exon 20
6898	17974	30531	0.62	1.0E-114	4759163	NT	Homo sapiens speractonecin, cwcw and kazal-like domains proteoglycan (testoon) (SPOCK) mRNA
6977	19458	32694	0.95	1.0E-114	AB041533.1	NT	Homo sapiens HCMOGT-1 mRNA for sperm antigen, complete cds
7139	19826	32694	1.02	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7139	19826	32695	1.02	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7182	19868	32941	8.3	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7182	19868	32942	8.3	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7782	20487	33910	2.62	1.0E-114	4557600	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2) mRNA
8067	20761	33889	1.92	1.0E-114	A1363139.1	EST_HUMAN	qy88d08.x1 NC1_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017163 3'
8067	20761	33890	1.92	1.0E-114	A1363139.1	EST_HUMAN	qy88d08.x1 NC1_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017163 3'
8602	21284	34437	3.81	1.0E-114	U63041.1	NT	Human neural cell adhesion molecule CD56 mRNA, complete cds
8685	21357	34505	6.93	1.0E-114	AB071133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
8685	21357	34506	6.93	1.0E-114	AB071133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
9081	21770	34633	0.49	1.0E-114	BF109832.1	EST_HUMAN	7689g12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3528847 3' similar to
9314	21881	33555	6.83	1.0E-114	AW327455.1	EST_HUMAN	TR-Q8UHN8 Q8UHN8 TRANSMEMBRANE PROTEIN 2 ;
9363	20433	33555	2.8	1.0E-114	AF077754.1	NT	dq03105.x1 NIH_MGC_2 Homo sapiens cDNA clone IMAGE:2846744 5'
9448	22125	33555	1.03	1.0E-114	M13536.1	NT	Homo sapiens tyrosine kinase pp60c-src (SRC) gene, exon 12 and partial cds
10039	22887	35905	1.08	1.0E-114	BE870004.1	EST_HUMAN	Human ceruloplasmin mRNA
10081	22709	35927	1.5	1.0E-114	AL163272.2	NT	601449752F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853500 5'
10439	23085	36313	0.7	1.0E-114	BE171984.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C027
							MFO-HT0559-250200-002-407 HT0559 Homo sapiens cDNA
							ba73g12.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2806086 5' similar to gbX17208 40S
							RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse L1Rep3 protein mRNA from a repetitive element, complete (MOUSE);
10687	23378		3.15	1.0E-114	BE302668.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10789	23472	36714	1.71	1.0E-114	AF223391.1	INT	

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10789	23472	36716	1.71	1.0E-114	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11145	23812	37094	3	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
11145	23812	37095	3	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
11788	24388	37719	1.7	1.0E-114	4758673	NT	Homo sapiens LIM HOX gene 2 (LHX2) mRNA
11834	24418	37769	1.32	1.0E-114	11526317	NT	Homo sapiens clathrin, heavy polypeptide-like 1 (CLTCL1), mRNA
12334	25402		3.42	1.0E-114	11418041	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
12577	24902	30008	4.93	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
12577	24902	30089	4.93	1.0E-114	11034850	NT	Homo sapiens HLA-B associated transcript-1 (D6S381E) mRNA
21	12849	25464	2.89	1.0E-115	4758111	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220KD) (POLR2A) mRNA
127	12942	26585	2.03	1.0E-115	4505938	NT	Homo sapiens keratin 18 (KRT18) mRNA
131	12946		2.33	1.0E-115	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
286	13092	25733	2.23	1.0E-115	AW804789.1	EST_HUMAN	QV4-UM0094-300300-158-508 UM0094 Homo sapiens cDNA
523	13307	25639	0.89	1.0E-115	AI339208.1	EST_HUMAN	q0601.x1 NC1 CGAP_G4 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TRC000538 000536
623	13307	25940	0.89	1.0E-115	AI339208.1	EST_HUMAN	TTF-1 INTERACTING PEPTIDE 5;
769	13541	26201	1.36	1.0E-115	5174702	NT	TTF-1 INTERACTING PEPTIDE 5;
769	13541	26202	1.36	1.0E-115	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
771	13543	26204	40.4	1.0E-115	4503794	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
1552	14298	26985	1.26	1.0E-115	AF228180.1	NT	Homo sapiens ferritin, heavy polypeptide 1 (FTH1) mRNA
1552	14298	26986	1.26	1.0E-115	AF228180.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
1833	14572	27285	1.01	1.0E-115	U78027.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
2078	14810	27541	0.96	1.0E-115	AB007802.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2298	15023	27798	2.13	1.0E-115	AF231124.1	NT	Homo sapiens KIAA0442 mRNA, partial cds
2855	15623		1.39	1.0E-115	AW804759.1	EST_HUMAN	Homo sapiens testican-1 mRNA, complete cds
3113	15878	28518	6.22	1.0E-115	AJ245822.1	NT	QV4-UM0094-300300-159-508 UM0094 Homo sapiens cDNA
3113	15878	28519	6.22	1.0E-115	AJ245822.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3465	16221	28876	1.8	1.0E-115	AJ277892.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
4021	16767	28397	3.67	1.0E-115	AB002348.2	NT	Homo sapiens partial TTN gene for titin
4368	17107	28742	3.27	1.0E-115	6912669	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4403	17140	29768	3.6	1.0E-115	4758279	NT	Homo sapiens sir2-like 3 (SIRT3), mRNA
4628	17363	29996	2.64	1.0E-115	AL098857.1	NT	Homo sapiens EphA4 (EPHA4) mRNA
							Novel human mRNA from chromosome 1, which has similarities to BAT2 genes

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4628	17363	29997	2.64	1.0E-115	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4848	17578	30201	3.51	1.0E-115	AL163288.2	NT	Human sapiens chromosome 21 segment HS21C088
4848	17578	30202	3.51	1.0E-115	AL163288.2	NT	Human sapiens chromosome 21 segment HS21C088
5268	18068	30688	1.62	1.0E-115	AW970395.1	EST_HUMAN	EST382416 IMAGE resequences, MAGK Homo sapiens cDNA
5338	18141	30802	0.78	1.0E-115	BF665387.1	EST_HUMAN	602118346F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276738 5'
5454	18253	31143	1.98	1.0E-115	11425128	NT	Human sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC83433), mRNA
5454	18253	31144	1.98	1.0E-115	11425128	NT	Human sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC83433), mRNA
5604	18400	31313	1.34	1.0E-115	AJ928799.1	EST_HUMAN	au84g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519568 3' similar to gb1.07807 DYNAMIN-1 (HUMAN);
5604	18400	31314	1.34	1.0E-115	AJ928799.1	EST_HUMAN	au84g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519568 3' similar to gb1.07807 DYNAMIN-1 (HUMAN);
6168	18945	31916	0.97	1.0E-115	11426786	NT	Human sapiens sperm surface protein (HSS), mRNA
6168	18945	31917	0.97	1.0E-115	11426786	NT	Human sapiens sperm surface protein (HSS), mRNA
6302	19075	32061	9.84	1.0E-115	11428038	NT	Human sapiens similar to ribosomal protein S28 (H. sapiens) (LOC83436), mRNA
6434	19202	32198	2.04	1.0E-115	7861883	NT	Human sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
6434	19202	32199	2.04	1.0E-115	7861883	NT	Human sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
6835	19497	32521	0.83	1.0E-115	T88774.1	EST_HUMAN	yd86b08.l1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:116095 5' similar to SP-DPOG_YEAST P15801 DNA POLYMERASE GAMMA ;
7178	19864	32935	1.54	1.0E-115	AJ076598.1	EST_HUMAN	ac31a08.x1 Soares_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676914 3'
7178	19864	32936	1.54	1.0E-115	AJ076598.1	EST_HUMAN	ac31a08.x1 Soares_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676914 3'
7308	19981	33068	8.22	1.0E-115	AB023212.1	NT	Human sapiens mRNA for KIAA0995 protein, partial cds
8060	20754	33885	13.71	1.0E-115	BE830187.1	EST_HUMAN	RC8-ET0081-130700-011-G01 ET0081 Homo sapiens cDNA
8060	20754	33886	13.71	1.0E-115	BE830187.1	EST_HUMAN	RC8-ET0081-130700-011-G01 ET0081 Homo sapiens cDNA
8712	21404	34548	2.15	1.0E-115	11434772	NT	Human sapiens eukaryotic translation initiation factor 4B (EIF4B), mRNA
9675	22327	35522	0.6	1.0E-115	BF382029.1	EST_HUMAN	601816352F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4050108 5'
9899	22549	35743	2.25	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
9899	22549	35744	2.25	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
10418	23084	36284	1	1.0E-115	AJ221878.1	EST_HUMAN	qg88e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10418	23084	36285	1	1.0E-115	AJ221878.1	EST_HUMAN	qg88e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10426	23072	36293	0.62	1.0E-115	AJ524687.1	EST_HUMAN	fh12a07.x1 NCI_CGAP_CLI1 Homo sapiens cDNA clone IMAGE:2118036 3' similar to TRC016129 C16129 PHENYLALANINE TRNA SYNTHETASE ;
10617	23310	36549	7.62	1.0E-115	AW571544.1	EST_HUMAN	xx32108.x1 NCI_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2839239 3' similar to SW:CAYP_CANFA P10463 CALYPTOSINE ;
10689	23549	36797	1.33	1.0E-115	8910279	NT	Human sapiens UDP-glucosylglycoprotein glucosyltransferase 1 (HUGT1), mRNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11225	23888	37174	1.54	1.0E-115	BE045880.1	EST_HUMAN	h54c10.x1 NC1 CGAP_Pan3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR-O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG;
11226	23888	37175	1.54	1.0E-115	BE045880.1	EST_HUMAN	h54c10.x1 NC1 CGAP_Pan3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR-O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG;
11374	23881	37281	2.27	1.0E-115	4502528	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E) mRNA
11775	24368	37699	2.53	1.0E-115	BE255549.1	EST_HUMAN	60111744F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352379 5'
11842	24428	37767	1.63	1.0E-115	AW884376.1	EST_HUMAN	QV3-OT0085-200300-137-112 OT0065 Homo sapiens cDNA
11920	24461		2.16	1.0E-115	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
559	13341	25969	1.98	1.0E-116	BE275502.1	EST_HUMAN	601121347F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2888875 5'
783	13555	28216	2.21	1.0E-116	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
839	13609		1.76	1.0E-116	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
1890	14728	27447	2.55	1.0E-116	5174478	NT	Homo sapiens pericentriem (PCNT) mRNA
1890	14728	27448	2.55	1.0E-116	5174478	NT	Homo sapiens pericentriem (PCNT) mRNA
2090	15585	27582	2.6	1.0E-116	M19824.1	NT	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18
2090	15585	27583	2.6	1.0E-116	M19824.1	NT	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18
2305	15030	27787	1.95	1.0E-116	5453941	NT	Homo sapiens protein phosphatase, EF hand calcium-binding domain 1 (PPEF1) mRNA
2340	15063		1.36	1.0E-116	U78308.1	NT	Human olfactory receptor olfr17-201-1 (OR17-201-1) gene, olfactory receptor olfr17-32 (OR17-32) gene and olfactory receptor pseudo_olfr17-01 (OR17-01) pseudogene, complete cds
2458	16176	27815	2.84	1.0E-116	AB018333.1	NT	Homo sapiens mRNA for KIAA0780 protein, partial cds
2738	15539	28183	1.53	1.0E-116	BE888256.1	EST_HUMAN	601513337F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914600 5'
3171	15934	28582	4.87	1.0E-116	L77570.1	NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
3171	15934	28583	4.87	1.0E-116	L77570.1	NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
4345	17084	29713	2.43	1.0E-116	5031954	NT	Homo sapiens sodium phosphate transporter 3 (NPT3) mRNA
4803	17534	30156	1.57	1.0E-116	A1907096.1	EST_HUMAN	PM-BT135-070498-016 BT135 Homo sapiens cDNA
5197	18005	30627	0.87	1.0E-116	A1902062.1	EST_HUMAN	qn19d04.x1 NC1 CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1898896 3' similar to contains element MER25 repetitive element;
5889	18674	31619	4.4	1.0E-116	W42822.1	EST_HUMAN	zc24d07.r1 Soares senescent fibroblasts NB-HSF Homo sapiens cDNA clone IMAGE:323245 5' similar to SW-MDHM_MOUSE P08249 MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR;
6117	18895	31862	1.8	1.0E-116	AB046856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
6117	18895	31863	1.8	1.0E-116	AB046856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
6184	18961	31934	0.76	1.0E-116	BE408097.1	EST_HUMAN	601302281F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636784 5'
6421	19189		1.55	1.0E-116	BE150193.1	EST_HUMAN	MR2-HT0379-210200-102-b04 HT0379 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6844	19544	32572	1.19	1.0E-116	C02944.1	EST_HUMAN	C02944 Human heart cDNA (Y Nakamura) Homo sapiens cDNA clone 3NH00567
7102	19780	32855	5.74	1.0E-116	AV716314.1	EST_HUMAN	AV716314 DCB Homo sapiens cDNA clone DCBCCG08 5'
8267	20661	34101	1.37	1.0E-116	AA354258.1	EST_HUMAN	EST62685 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8267	20661	34102	1.37	1.0E-116	AA354258.1	EST_HUMAN	EST62685 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8378	21071	34209	0.88	1.0E-116	AB04151.1	EST_HUMAN	GM-BT043-080239-075 BT043 Homo sapiens cDNA
8636	21528	34674	1.66	1.0E-116	BE585607.1	EST_HUMAN	601338268F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3680680 5'
8697	21687	34837	1.61	1.0E-116	AZ16352.1	EST_HUMAN	qf09c05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844168 3' similar to gb:X63741_mel1 FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
8673	22228	35411	1.52	1.0E-116	11418646	NT	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2), mRNA
10170	22818	36038	0.74	1.0E-116	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase I (XT-I gene)
10170	22818	36037	0.74	1.0E-116	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase I (XT-I gene)
10246	22894	36104	0.78	1.0E-116	BE158913.1	EST_HUMAN	QV4-HT0401-281289-069-c09 HT0401 Homo sapiens cDNA
10586	23281	36519	2.4	1.0E-116	BF335949.1	EST_HUMAN	CM2-CT0482-300800-349-e08 CT0482 Homo sapiens cDNA
11080	23750	37025	2.85	1.0E-116	A1367140.1	EST_HUMAN	qq41604.x1 Soares_NHIMPu_S1 Homo sapiens cDNA clone IMAGE:1835102 3' similar to WP:30485.7 CE01765;
12626	25267		1.88	1.0E-116	AL134889.1	EST_HUMAN	DKFZp762L1110_r1 762 (synonym: hmal2) Homo sapiens cDNA clone DKFZp762L1110 5'
545	13328	26959	1.67	1.0E-117	48268368	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
1055	15559	26474	0.96	1.0E-117	AF124393.1	NT	Mus musculus fragile-X-related protein 1 (Fxr1h) gene, exons 13a through 15
1747	14489	27186	1.02	1.0E-117	AF123320.1	NT	Homo sapiens lymphocyte activation-associated protein mRNA, complete cds
1823	14562	27274	1.51	1.0E-117	M18816.1	NT	Human apolipoprotein B-100 (apoB) gene, exon 10
2208	14936	27674	1.54	1.0E-117	AW957899.1	EST_HUMAN	EST389769 MAGE resequences, MAGE Homo sapiens cDNA
3262	16024	28674	1.64	1.0E-117	AA978114.1	EST_HUMAN	qp32e11.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1578548 3'
3971	16720	28355	2.1	1.0E-117	AA316723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L28
4310	17049	28674	2.03	1.0E-117	86895604	NT	Homo sapiens collagen, type IV, alpha 5 (Alport syndrome) (COL4A5), mRNA
4538	17273	28905	2.95	1.0E-117	AL042120.1	EST_HUMAN	DKFZp434C1120_r1 434 (synonym: htes2) Homo sapiens cDNA clone DKFZp434C1120 5'
4674	17408	30043	1.27	1.0E-117	X98670.1	NT	H. sapiens mRNA for TPOR16 protein
4674	17408	30044	1.27	1.0E-117	X98670.1	NT	H. sapiens mRNA for TPOR16 protein
4759	17491	30119	10.03	1.0E-117	AF134304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4759	17491	30120	10.03	1.0E-117	AF134304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4887	17614	30233	3.57	1.0E-117	AB020673.1	NT	Homo sapiens mRNA for KIAA0868 protein, complete cds
5136	17854	30471	0.73	1.0E-117	6912481	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
5264	18070	30699	3.01	1.0E-117	BE730508.1	EST_HUMAN	601582657F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832214 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6860	17637	30574	0.86	1.0E-117	AA323348.1	EST_HUMAN	EST28111 Cerebellum II Homo sapiens cDNA 5' end similar to similar to zinc finger domain
7350	20031	33108	5.01	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
7350	20031	33109	5.01	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
7446	20122	33212	1.75	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
7446	20122	33213	1.75	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
7878	20573	33688	3.38	1.0E-117	AI950145.1	EST_HUMAN	wp86807.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE2468629 3' similar to TR:076085
8210	20804	34039	2.29	1.0E-117	10834989	NT	075085 KIAA0477 PROTEIN :
8210	20804	34040	2.29	1.0E-117	10834989	NT	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8310	21004	34141	0.56	1.0E-117	AI904151.1	EST_HUMAN	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8310	21004	34142	0.56	1.0E-117	AI904151.1	EST_HUMAN	CM-BT043-080299-075 BT043 Homo sapiens cDNA
9199	21868	35033	2.25	1.0E-117	D16524.1	NT	CM-BT043-080299-075 BT043 Homo sapiens cDNA
9686	22338	35532	2.07	1.0E-117	BE73922.1	EST_HUMAN	Human gene for very low density lipoprotein receptor, exon 11
9846	26127	35887	2.9	1.0E-117	AF069033.1	NT	601568317F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843748 5'
10469	23115	36345	1.11	1.0E-117	11420222	NT	Homo sapiens gamma-aminobutyric acid type B receptor 2 (GABABR2) mRNA, complete cds
10765	23449	36691	1.77	1.0E-117	D83776.1	NT	Homo sapiens Drosophila Kalch like protein (DKELCHL), mRNA
10864	23640	36892	2.68	1.0E-117	11424835	NT	Human mRNA for KIAA0191 gene, partial cds
11243	23905	37196	3.32	1.0E-117	11424835	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA
11369	23976	37197	3.32	1.0E-117	AB011541.1	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA
11587	24186	37601	14.73	1.0E-117	BE268856.1	EST_HUMAN	Homo sapiens mRNA for MEGF8, partial cds
11687	24186	37602	2.02	1.0E-117	4501848	NT	Homo sapiens mRNA for MEGF8, partial cds
68	12898	25530	5.98	1.0E-118	AF161500.1	NT	Homo sapiens mRNA for MEGF8, partial cds
94	13286	25922	5.67	1.0E-118	AL045854.1	EST_HUMAN	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
894	15555	26328	0.96	1.0E-118	5174680	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
2227	14955	27683	2.04	1.0E-118	BE389705.1	EST_HUMAN	Homo sapiens HSPC151 mRNA, complete cds
2227	14955	27694	2.04	1.0E-118	BE389705.1	EST_HUMAN	Homo sapiens HSPC151 mRNA, complete cds
2227	14955	27695	2.04	1.0E-118	BE389705.1	EST_HUMAN	Homo sapiens HSPC151 mRNA, complete cds
2329	15054	28189	2.61	1.0E-118	U07000.1	NT	Homo sapiens HSPC151 mRNA, complete cds
2744	15450	28189	2.61	1.0E-118	U07000.1	NT	Homo sapiens HSPC151 mRNA, complete cds
2744	15450	28189	2.61	1.0E-118	U07000.1	NT	Homo sapiens HSPC151 mRNA, complete cds
3102	15967		4.64	1.0E-118	Y13932.1	NT	Homo sapiens PRKY exon 7

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3190	15953	28605	4.67	1.0E-118	AI347694.1	EST_HUMAN	qp0105.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'
3190	15953	28606	4.67	1.0E-118	AI347694.1	EST_HUMAN	qp0105.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'
4087	19811	29439	4.77	1.0E-118	D23660.1	NT	Human mRNA for ribosomal protein, complete cds
4659	17393	30028	0.9	1.0E-118	11425783	NT	Homo sapiens KIAA0478 gene product (KIAA0478), mRNA
5337	18140	30800	1.87	1.0E-118	AF142624.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5337	18140	30801	1.87	1.0E-118	AF142624.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5543	18340	31247	0.94	1.0E-118	11422054	NT	Homo sapiens readin (RELN), mRNA
5543	18340	31248	0.94	1.0E-118	11422054	NT	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 4
5684	18477	31395	1.24	1.0E-118	M55109.1	NT	Homo sapiens T-box 4 (TBX4), mRNA
5772	18563	31491	0.83	1.0E-118	11425900	NT	Homo sapiens T-box 4 (TBX4), mRNA
5772	18563	31492	0.83	1.0E-118	11425900	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
5853	18640	31578	1.49	1.0E-118	11420784	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6582	19355	32368	1.44	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6582	19355	32369	1.44	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6887	19889	32738	1.12	1.0E-118	AL043761.1	EST_HUMAN	DKFZp434O0127.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434O0127 5'
6887	19889	32739	1.12	1.0E-118	AL043761.1	EST_HUMAN	DKFZp434O0127.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434O0127 5'
6997	19889	32739	1.12	1.0E-118	11431050	NT	Homo sapiens chromosome 2 open reading frame 3 (C2ORF3), mRNA
7500	20172	33264	5.63	1.0E-118	11431050	NT	Homo sapiens chromosome 2 open reading frame 3 (C2ORF3), mRNA
7733	20397	33512	0.86	1.0E-118	BF683272.1	EST_HUMAN	601468159F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302749 5'
7872	20587	33693	2.17	1.0E-118	BE781223.1	EST_HUMAN	601468159F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302749 5'
8282	20976	34116	6.58	1.0E-118	BE062855.1	EST_HUMAN	QV0-B10263-090200-097-h03 B10263 Homo sapiens cDNA
8282	20976	34117	6.58	1.0E-118	BE062855.1	EST_HUMAN	QV0-B10263-090200-097-h03 B10263 Homo sapiens cDNA
8288	20982	34122	1.37	1.0E-118	AA443024.1	EST_HUMAN	QV0-B10263-090200-097-h03 B10263 Homo sapiens cDNA
8288	20982	34123	1.37	1.0E-118	AA443024.1	EST_HUMAN	QV0-B10263-090200-097-h03 B10263 Homo sapiens cDNA
8573	21265	34404	1.01	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8573	21265	34405	1.01	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8621	21313	34455	2.06	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8621	21313	34456	2.06	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8633	21824	34767	4.95	1.0E-118	BE263134.1	EST_HUMAN	601144863F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160502 5'
8664	21655	34808	0.55	1.0E-118	AL048474.2	EST_HUMAN	DKFZp586K1824.1 586 (synonym: hufet1) Homo sapiens cDNA clone DKFZp586K1824
9493	22146	35327	1.53	1.0E-118	7857016	NT	Homo sapiens hypodermal protein (DJ328E19.C1.1), mRNA
9886	22836	35731	0.98	1.0E-118	AL138321.1	EST_HUMAN	DKFZp547O017.1 547 (synonym: hbrf1) Homo sapiens cDNA clone DKFZp547O017 5'
10274	22922	36134	1.88	1.0E-118	BF195407.1	EST_HUMAN	7n17e09.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:3564785 3' similar to SW:ZP3A_HUMAN P21754 ZONA PELLUCIDA SPERM-BINDING PROTEIN 3A PRECURSOR:

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10365	23012	36227	0.48	1.0E-118	AW271289.1	EST_HUMAN	xe46a10.x1 NCL CGAP_Kd111 Homo sapiens cDNA clone IMAGE:2772668 3' similar to
10431	23077	36300	0.65	1.0E-118	AW286351.1	EST_HUMAN	SW_BODG_HUMAN 076938 GAMMA-BUTYROBETAINE-2-OXOGLUTARATE DIOXYGENASE ;
11206	23869	37165	1.61	1.0E-118	BF685214.1	EST_HUMAN	UHH-BW0-eto-e-07-0-L1.s1 NCL CGAP_Sub08 Homo sapiens cDNA clone IMAGE:2729772 3'
11236	23869	37186	1.8	1.0E-118	110553688	NT	602141628F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4302788 5'
							Homo sapiens protein with polyglutamine repeat; calcium (cas2+) homeostasis endoplasmic reticulum protein (ERPR0T213-21). mRNA
11246	23808	37201	10.23	1.0E-118	AA315007.1	EST_HUMAN	EST168814 HCC cell line (metastasis to liver in mouse) H1 Homo sapiens cDNA 5' end similar to dynein, light chain 1, cytoplasmic
11548	24147	37457	1.68	1.0E-118	BE008678.1	EST_HUMAN	601499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
11548	24147	37458	1.68	1.0E-118	BE008678.1	EST_HUMAN	601499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
11551	24160	37481	1.61	1.0E-118	BF036887.1	EST_HUMAN	QV0-UM0091-120900-385-b12 UM0091 Homo sapiens cDNA
11551	24160	37482	1.61	1.0E-118	BF036887.1	EST_HUMAN	QV0-UM0091-120900-385-b12 UM0091 Homo sapiens cDNA
741	13514	26173	0.97	1.0E-119	AF170482.1	NT	Homo sapiens chloride channel CLCA4 (CLCA) mRNA, complete cds
1014	16558	26433	1.61	1.0E-119	7705607	NT	Homo sapiens CGI-105 protein (LOC51011), mRNA
1928	14682	27374	5.97	1.0E-119	AB023147.1	NT	Homo sapiens mRNA for KIAA0830 protein, partial cds
3089	15884	28508	1.57	1.0E-119	8822205	NT	Homo sapiens hypothetical protein FLJ10052 (FLJ10052), mRNA
3234	15996		0.8	1.0E-119	AA916760.1	EST_HUMAN	on10b05.s1 NCL CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1556241 3' similar to WP-E04F6.2
3834	16684	28325	1.42	1.0E-119	4504116	NT	CE01214 ;
5253	18059	30688	2.5	1.0E-119	AU133399.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5268	18072	30701	21.82	1.0E-119	M68914.1	NT	AU133399 NT2RP4 Homo sapiens cDNA clone NT2RP4001891 5'
5270	18076	30706	3.11	1.0E-119	BE836121.1	EST_HUMAN	Human neurofibronin (NF1) gene, complete cds
5347	18150	30830	1.63	1.0E-119	AV693731.1	EST_HUMAN	RC1-NN0073-250800-018-g06 NN0073 Homo sapiens cDNA
5503	18301	31201	0.63	1.0E-119	AL134903.1	EST_HUMAN	AV693731 GKc Homo sapiens cDNA clone GKCDHB03 5'
5503	18301	31202	0.63	1.0E-119	AL134903.1	EST_HUMAN	DKFZp762M0710_r1 762 (synonym: hme42) Homo sapiens cDNA clone DKFZp762M0710 5'
							DKFZp762M0710_r1 762 (synonym: hme42) Homo sapiens cDNA clone DKFZp762M0710 5'
6038	18816	31776	7.87	1.0E-119	AI150703.1	EST_HUMAN	qb77c09.x1 Soares_fetal_NH-H19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to
6160	18987	31940	0.92	1.0E-119	AF315683.1	NT	SWXK1CJ_MOUSE P02535 KERATIN, TYPE I CYTOSKELETAL 10 ;
6190	18987	31941	0.92	1.0E-119	AF315683.1	NT	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
6239	19013	31987	0.86	1.0E-119	AI476732.1	EST_HUMAN	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
6370	19139	32135	2.62	1.0E-119	X08282.1	NT	tm23f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157451 3'
6380	19149	32148	4.69	1.0E-119	AW974193.1	EST_HUMAN	Human c-fos-like protein oncogene
7310	19993	33070	1.5	1.0E-119	BE796614.1	EST_HUMAN	EST386298 IMAGE sequences, MAGM Homo sapiens cDNA
8360	21252	34390	1.19	1.0E-119	BE16150.1	EST_HUMAN	601682005F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946081 5'
							601280584F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622528 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9807	22458	35683	1.16	1.0E-119	11036843	NT	Homo sapiens KIAA0477 gene product (KIAA0477), mRNA
10008	22654	35887	0.55	1.0E-119	AI149786.1	EST_HUMAN	q143a11.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1782764 3' similar to TR-Q13458
10146	22794	36008	3.35	1.0E-119	AA466124.1	EST_HUMAN	Q13458 GUANINE NUCLEOTIDE EXCHANGE FACTOR PROTEIN TRIO. ;
10401	23047	36263	1.29	1.0E-119	AJ297701.1	NT	aa32105.1 NC1_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814977 5'
10443	23089	36317	0.71	1.0E-119	11425837	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
10443	23089	36318	0.71	1.0E-119	11425837	NT	Homo sapiens hypothetical protein FLJ10206 (FLJ10206), mRNA
10517	23163	36390	4.16	1.0E-119	AB032281.1	NT	Homo sapiens Sod mRNA for citroryl-CoA desaturase, complete cds
10985	23660	36913	2.38	1.0E-119	AJ297701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
10985	23660	36914	2.38	1.0E-119	AJ297701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
11159	23826		6.31	1.0E-119	BF569571.1	EST_HUMAN	602186072F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310633 5'
12188	26326		2.16	1.0E-119	AW847519.1	EST_HUMAN	RC3-CTD212-240888-011-403 CT0212 Homo sapiens cDNA
264	13100	25741	1.43	1.0E-120	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
1018	13178	26439	2.49	1.0E-120	AF248540.1	NT	Homo sapiens Intersectin 2 (SH3D1B) mRNA, complete cds
1018	13178	26440	2.49	1.0E-120	AF248540.1	NT	Homo sapiens Intersectin 2 (SH3D1B) mRNA, complete cds
1405	14152	26832	2.31	1.0E-120	N44873.1	EST_HUMAN	yy40g12.1 Soares melanocyte 2NHRM Homo sapiens cDNA clone IMAGE:273768 5'
1597	14243	27033	3.08	1.0E-120	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1798	14539	27250	1.21	1.0E-120	4557250	NT	Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA
2100	14831	27565	0.92	1.0E-120	AB011398.1	NT	Homo sapiens gene for AF-6, complete cds
2100	14831	27568	0.92	1.0E-120	AB011398.1	NT	Homo sapiens gene for AF-6, complete cds
2631	15247	27985	5.24	1.0E-120	4755124	NT	Homo sapiens aquaporin 4 (AQP4), splice variant b, mRNA
3302	13100	25741	1.59	1.0E-120	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
4325	17064	29682	1.95	1.0E-120	AF058490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4325	17064	29683	1.95	1.0E-120	AF058490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4614	17349	29983	2.22	1.0E-120	AF098483.1	NT	Homo sapiens stannocalcin (STC) gene, partial cds
4614	17349	29984	2.22	1.0E-120	AF098483.1	NT	Homo sapiens stannocalcin (STC) gene, partial cds
5065	17784	30401	1.36	1.0E-120	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5133	17851	30468	0.9	1.0E-120	AI109003.1	EST_HUMAN	q61f03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1733981 3'
5649	18444	31357	16.61	1.0E-120	BF568222.1	EST_HUMAN	602183994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
5649	18444	31358	16.61	1.0E-120	BF568222.1	EST_HUMAN	602183994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
6350	19120	32110	0.57	1.0E-120	M29428.1	NT	Human P-glycoprotein (MDR1) gene, exons 6 and 7
6350	19120	32111	0.57	1.0E-120	M29428.1	NT	Human P-glycoprotein (MDR1) gene, exons 6 and 7
7471	20144	33236	1.77	1.0E-120	D34619.1	NT	Human TBXAS1 gene for thromboxane synthase, exon 7
7795	20490	33612	5.22	1.0E-120	Y00067.1	NT	Human gene for neurofilament subunit M (NF-M)

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7795	20480	33813	5.22	1.0E-120	Y00067.1	NT	Human gene for neurofilament subunit M (NF-M)
8230	20824	34063	2.43	1.0E-120	BF337598.1	EST_HUMAN	602035352F1 NCI_GGAP_Bm64 Homo sapiens cDNA clone IMAGE:4183333 5'
8303	20897	34135	0.85	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8303	20897	34136	0.85	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8307	21001	34138	2.33	1.0E-120	AB007864.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8307	21001	34139	2.33	1.0E-120	AB007864.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8352	21045	34182	1.17	1.0E-120	AB007834.1	NT	Homo sapiens mRNA for KIAA0465 protein, partial cds
9401	22063	35233	5.26	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
9401	22063	35234	5.26	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
9845	22297	35492	3.75	1.0E-120	BF306641.1	EST_HUMAN	601888966F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122876 5'
9860	22312	35510	8.25	1.0E-120	AU133205.1	EST_HUMAN	AU133205 NT2RP4 Homo sapiens cDNA clone NT2RP4001541 5'
9877	22328	35525	0.79	1.0E-120	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
9877	22443	35525	0.64	1.0E-120	AB04151.1	EST_HUMAN	GM-BT043-060280-075 BT043 Homo sapiens cDNA
9876	22624	35631	2.55	1.0E-120	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
11071	23741	37015	3.72	1.0E-120	BE286387.1	EST_HUMAN	601176727F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532015 5'
11316	24007	37311	2.06	1.0E-120	BE867819.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11316	24007	37312	2.06	1.0E-120	BE867819.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11650	24247	37567	1.38	1.0E-120	U94774.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, 5'UTR and exon 1
71	12888	25534	1.08	1.0E-121	Y18000.1	NT	Homo sapiens NF2 gene
369	13185	26808	0.83	1.0E-121	AU194963.1	EST_HUMAN	AU134863 PLACE1 Homo sapiens cDNA clone PLACE1000889 5'
707	15549	28130	1.31	1.0E-121	5032182	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
1668	14315	27001	2.81	1.0E-121	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
1958	14694	27407	1.33	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate 4-phosphatase, type I, 107KD (INPP4A), splice variant a, mRNA
1958	14694	27408	1.33	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate 4-phosphatase, type I, 107KD (INPP4A), splice variant a, mRNA
1964	14700	27415	1.18	1.0E-121	M95998.1	NT	Human prohormone converting enzyme (NEC2) gene, exon 9
1964	14700	27416	1.18	1.0E-121	M95998.1	NT	Human prohormone converting enzyme (NEC2) gene, exon 9
2095	14826	27659	1.51	1.0E-121	L76831.1	NT	Homo sapiens metabotropic glutamate receptor 1 beta (mGluR1beta) mRNA, complete cds
3079	15944	28486	3.51	1.0E-121	Y18208.1	NT	Homo sapiens hrlb3 gene for hair keratin, exons 1 to 9
3079	15944	28487	3.51	1.0E-121	Y18208.1	NT	Homo sapiens hrlb3 gene for hair keratin, exons 1 to 9
3525	16281	28936	1.19	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3525	16281	28937	1.19	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3666	16419	29080	7.35	1.0E-121	AF155156.2	NT	Homo sapiens adaptor-related protein complex AP-4 epsilon subunit mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4296	17035	28683	2	1.0E-121	AI263294.1	EST_HUMAN	q057b01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2005417 3'
4919	17847	30259	3.24	1.0E-121	X91837.1	NT	H. sapiens ECE-1 gene (exon 17)
5188	17894	30510	0.97	1.0E-121	BE272250.1	EST_HUMAN	h009f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3168119 3'
5474	18273	31167	0.85	1.0E-121	BE271424.1	EST_HUMAN	601140485F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3049820 5'
6524	18280	32294	0.91	1.0E-121	M91463.1	NT	Human glucose transporter (GLUT4) gene, complete cds
6788	19532		0.68	1.0E-121	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region, segment 2/2
6868	17943	30537	1.78	1.0E-121	AW898086.1	EST_HUMAN	RC3-NIN0068-270400-011-402 NN0068 Homo sapiens cDNA
6866	17943	30538	1.78	1.0E-121	AW898086.1	EST_HUMAN	RC3-NIN0068-270400-011-402 NN0068 Homo sapiens cDNA
7838	20533	33680	2.11	1.0E-121		NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2), mRNA
7842	20537	33684	2.45	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
7842	20537	33685	2.45	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
9768	22409	35015	1.21	1.0E-121	AW583858.1	EST_HUMAN	la05g05.y1 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR:O75457 O75457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA.
9768	22409	35016	1.21	1.0E-121	AW583858.1	EST_HUMAN	la05g05.y1 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR:O75457 O75457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA.
10575	23366	36009	2.95	1.0E-121	11427788	NT	Homo sapiens COX11 (yeast) homolog, cytochrome c oxidase assembly protein (COX11), mRNA
10683	23374	36616	1.28	1.0E-121	AF084200.1	NT	Homo sapiens UDP-glucuronosyltransferase 2B4 precursor (UGT2B4) mRNA, UGT2B4*E458 allele, complete cds
10889	23569	36820	3.46	1.0E-121	7330334	NT	Homo sapiens chloride intracellular channel 4 like (CLIC4L), mRNA
10917	23597	36844	2.53	1.0E-121	N59624.1	EST_HUMAN	yv74c01.s1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:248448 3'
11309	23988	37269	2.83	1.0E-121	AU119320.1	EST_HUMAN	AU119320 HEMBA1 Homo sapiens cDNA clone HEMBA1005636 5'
261	13089	25707	2.28	1.0E-122	11528178	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
327	13128	25763	2.63	1.0E-122	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
348	13147	25787	2.14	1.0E-122	AF114488.1	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
862	13631	26302	3.99	1.0E-122	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
1198	13950	26614	4.29	1.0E-122	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)
1698	14432	27128	1.28	1.0E-122	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1707	14450	27150	1.35	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1707	14450	27151	1.35	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1807	14547	27262	4.54	1.0E-122	BE06024.1	EST_HUMAN	601497032F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3869358 5'
2495	15212	27854	6.21	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'
2495	15212	27955	5.21	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2844	15912	28230	1.41	1.0E-122	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
4795	17626	30148	5.04	1.0E-122	45021681	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
4930	17658		1.46	1.0E-122	AW504645.1	EST_HUMAN	U1-HF-BNO-01-a-03-0-UI-1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078948 5'
5478	18276	31170	1.38	1.0E-122	BE256039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
6658	18276	31170	7.1	1.0E-122	BE256039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
7113	19801	32865	0.73	1.0E-122	AA988671.1	EST_HUMAN	af49H08.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1408339 3'
8885	21387	34530	0.66	1.0E-122	AJ276801.1	NT	Homo sapiens mRNA for doublesex and mab-3 related transcription factor 1 (DMRT1)
8928	21617	34761	1.21	1.0E-122	11424216	NT	Homo sapiens lethal giant larvae (Drosophila) homolog 2 (LLGL2), mRNA
9223	21902	35073	1.19	1.0E-122	AJ359618.1	EST_HUMAN	q32h07.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2013767 3' similar to SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1.1
9223	21902	35074	1.19	1.0E-122	AJ359618.1	EST_HUMAN	q32h07.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2013767 3' similar to SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1.1
10034	22682	35889	1.05	1.0E-122	AL117234.1	NT	Novel human gene mapping to chromosome X, isoform of dcl (proto-oncogene)
10908	23588	36834	2.17	1.0E-122	AW955834.1	EST_HUMAN	EST387904 MAGE resequences, MAGD Homo sapiens cDNA
11358	24046	37349	1.88	1.0E-122	AB024068.1	NT	Homo sapiens gene for B120, exon 10
11958	24509		6.6	1.0E-122	11418187	NT	Homo sapiens phosphatidylinositolase 1 (PIM1), mRNA
751	13523	26181	1.74	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153870 5'
751	13523	26182	1.74	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153870 5'
592	13764	26416	5.4	1.0E-123	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
1001	13761	26422	2.5	1.0E-123	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1216	13966	26634	5.58	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1216	13966	26635	5.58	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1438	14185	26871	0.91	1.0E-123	AJ388641.1	NT	Homo sapiens partial mRNA for immunoglobulin kappa chain variable region (IGVK gene), sample GN02
2092	14823	27555	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2092	14823	27556	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2092	14823	27557	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2313	15038		3.62	1.0E-123	7705862	NT	Homo sapiens RAB9-like protein (LOC51208), mRNA
3245	16007	28657	0.95	1.0E-123	6912617	NT	Homo sapiens glutathionyl-peptide cyclotransferase (glutathionyl cyclase) (QPCT), mRNA
5361	18163	30847	1.56	1.0E-123	134219.1	NT	Homo sapiens retinaldehyde-binding protein (RALBP) gene, complete cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5361	18163	30848	1.58	1.0E-123	U34219.1	NT	Homo sapiens retinaldehyde-binding protein (CRALBP) gene, complete cds
5494	18293	31191	1.62	1.0E-123	BE798748.1	EST_HUMAN	601591108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945433 5'
5877	19146	32145	2.59	1.0E-123	AU118435.1	EST_HUMAN	AU118435 HEMBA1 Homo sapiens cDNA clone HEMBA1003591 5'
6805	19843	32688	1.2	1.0E-123	H53188.1	EST_HUMAN	Yq84a03.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:202444 5' similar to SP:YAK1_YEAST P14680 PROTEIN KINASE YAK1 ;
6915	19852	32698	1.25	1.0E-123	U42224.1	NT	Human growth hormone releasing hormone gene, exon 7
7094	19783	32849	2.87	1.0E-123	U56258.1	NT	Human hBRAVONr-CAM precursor (hBRAVONr-CAM) gene, complete cds
7302	19885	33061	1.62	1.0E-123	U11528833	NT	Homo sapiens heparan sulfate (glucosaminyl) 3-O-sulfotransferase 2 (HS3ST2), mRNA
7542	20212	33312	1.3	1.0E-123	U11436439	NT	Homo sapiens 2'-5'-oligoadenylate synthetase 2 (OAS2), mRNA
7661	20221	33324	2.18	1.0E-123	BE263001.1	EST_HUMAN	601152815F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508162 5'
7816	20511	33638	0.67	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
7816	20511	33637	0.67	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
8433	21126		1.13	1.0E-123	AW371824.1	EST_HUMAN	RC4-BT0311-251188-012-a07 BT0311 Homo sapiens cDNA
8269	22023	35193	2.43	1.0E-123	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8405	22067	35239	15.48	1.0E-123	U09823.1	NT	Oryzobolus cuniculus New Zealand white elongation factor 1 alpha (Rabefiel2) mRNA, complete cds
11720	24314	37637	4.68	1.0E-123	BF677292.1	EST_HUMAN	602088791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
11720	24314	37638	4.68	1.0E-123	BF677292.1	EST_HUMAN	602088791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
262	13070	25708	2.19	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
262	13070	25709	2.19	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
268	13076		2.99	1.0E-124	D87676.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
473	13259	25888	2.84	1.0E-124	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
675	13450	26082	2.68	1.0E-124	AA397551.1	EST_HUMAN	z811504.r1 Stratiogene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
675	13450	26093	2.68	1.0E-124	AA397551.1	EST_HUMAN	G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
742	13515	26174	7.84	1.0E-124	AF155854.1	NT	z811504.r1 Stratiogene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
790	13582	26223	1.61	1.0E-124	4507500	NT	G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
894	13653	26321	1.94	1.0E-124	7705446	NT	Human putative ribosomal protein S1 mRNA
1325	14074	26747	4.95	1.0E-124	AF274892.1	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1325	14074	26748	4.95	1.0E-124	AF274892.1	NT	Homo sapiens hypothetical protein (HSPC068), mRNA
1808	14548	27263	2.28	1.0E-124	AJ131712.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
2054	14768	27512	3.05	1.0E-124	BE879524.1	EST_HUMAN	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
3358	16118	28774	0.95	1.0E-124	4504116	NT	Homo sapiens mRNA for nuclear RNA-helicase (ncl161 gene)
							601491715F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3893954 5'
							Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3482	16239	28886	1.25	1.0E-124	S78884.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3482	16239	28886	1.25	1.0E-124	S78884.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3640	16363	28033	1.54	1.0E-124	X13794.1	NT	H. sapiens lactate dehydrogenase B gene exon 1 and 2 (EC 1.1.1.27) (and joined CDS)
3880	16630	28269	1	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4056	16801	28432	1.34	1.0E-124	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4686	17430	30061	1.94	1.0E-124	AB024069.1	NT	Homo sapiens gene for B120, exon 11
4881	17608		1.13	1.0E-124	M18178.1	NT	Human fibronectin gene extra type III repeat (EDII), exon x+1
5216	18023	30847	12.12	1.0E-124	8822337	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5586	18363	31293	0.92	1.0E-124	4506788	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
5797	18588	31514	6.94	1.0E-124	BF886135.1	EST_HUMAN	602124644F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281635 5'
6077	18856	31823	0.91	1.0E-124	AV711263.1	EST_HUMAN	AV711263 Cu Homo sapiens cDNA clone QUAADF07 5'
6339	19109	32038	0.98	1.0E-124	11420654	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
6912	19849	32695	2.95	1.0E-124	Y11717.1	NT	M.musculus mRNA for hoxa3 gene
7037	19729	32786	0.94	1.0E-124	BE271295.1	EST_HUMAN	600943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2869585 5'
7037	19729	32786	0.94	1.0E-124	BE271295.1	EST_HUMAN	600943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2869585 5'
7452	20128	33220	0.92	1.0E-124	AA630331.1	EST_HUMAN	sc08105.s1 Striatogene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:855897 3'
8158	20850	33982	8.07	1.0E-124	4508654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
8362	21055	34195	1.26	1.0E-124	AW612106.1	EST_HUMAN	hg94409.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2853240 3' similar to TR:085162
8362	21055	34195	1.26	1.0E-124	AW612106.1	EST_HUMAN	O85162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE.;
8362	21055	34195	1.26	1.0E-124	AW612106.1	EST_HUMAN	hg94409.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2853240 3' similar to TR:085162
8060	21749	34907	0.61	1.0E-124	A1789864.1	EST_HUMAN	O85162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE.;
8060	21749	34908	0.61	1.0E-124	A1789864.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_P728 Homo sapiens cDNA clone IMAGE:2321428 3'
8060	21749	34908	0.61	1.0E-124	A1789864.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_P728 Homo sapiens cDNA clone IMAGE:2321428 3'
8390	22052	35223	2.31	1.0E-124	AV845633.1	EST_HUMAN	AV845633 GLC Homo sapiens cDNA clone GLCACE04 3'
8390	22052	35224	2.31	1.0E-124	AV845633.1	EST_HUMAN	AV845633 GLC Homo sapiens cDNA clone GLCACE04 3'
8477	22130	35309	0.62	1.0E-124	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8477	22130	35310	0.52	1.0E-124	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8508	22161	35342	7.57	1.0E-124	A1767133.1	EST_HUMAN	w83802.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
8508	22161	35343	7.57	1.0E-124	A1767133.1	EST_HUMAN	w83802.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
9771	22422	35630	1.57	1.0E-124	AW503755.1	EST_HUMAN	UJ-HF-BNO-elz-b-04-0-UJ.H NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078846 5'
10804	23487		1.44	1.0E-124	11432087	NT	Homo sapiens leucine-rich, glioma inactivated 1 (LGI1), mRNA
10976	23652	36905	1.61	1.0E-124	U94778.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, exons 6 through 17
11305	23964	37265	3.51	1.0E-124	AW685663.1	EST_HUMAN	hg05c06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2880806 3'

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11452	23219	36452	3	1.0E-124	AI448455.1	EST_HUMAN	g18c03.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:Q31682 Q31682 YKRS PROTEIN.;
11462	23219	36463	3	1.0E-124	AI448455.1	EST_HUMAN	g18c03.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:Q31682 Q31682 YKRS PROTEIN.;
12029	13450	26092	4.1	1.0E-124	AA397551.1	EST_HUMAN	z81b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
12029	13450	26093	4.1	1.0E-124	AA397551.1	EST_HUMAN	z81b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
12454	24823	31026	1.61	1.0E-124	AB028016.1	NT	Homo sapiens mRNA for KIAA1093 protein, partial cds
12706	25279	30729	1.44	1.0E-124	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12706	25279	30730	1.44	1.0E-124	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
148	12961	25603	1.74	1.0E-125	BE219510.1	EST_HUMAN	hV63a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177886 3' similar to TR:Q25058 Q25058 FIBROPELIN 1A;
148	12961	25604	1.74	1.0E-125	BE219510.1	EST_HUMAN	hV63a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177886 3' similar to TR:Q25058 Q25058 FIBROPELIN 1A;
311	13115		5.49	1.0E-125	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
417	12828	25441	5.47	1.0E-125	BE743922.1	EST_HUMAN	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3026685 5'
628	13408	26043	1.18	1.0E-125	AI110658.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
628	13408	26044	1.18	1.0E-125	AI110658.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
711	13485	26134	1.56	1.0E-125	AF284760.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
840	13610	26280	2.29	1.0E-125	AA042813.1	EST_HUMAN	z653c07.s1 Scores_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFATORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
978	13743	26405	1.22	1.0E-125	AL183210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1131	13887	26545	1.76	1.0E-125	7682279	NT	Homo sapiens KIAA0744 gene product, histone deacetylase 7 (KIAA0744), mRNA
1668	15575	27105	0.99	1.0E-125	7681867	NT	Homo sapiens KIAA0022 gene product (KIAA0022), mRNA
1763	14533	27242	0.91	1.0E-126	U78027.1	NT	Homo sapiens Brubin's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1804	14544	27258	1.59	1.0E-125	AF015450.1	NT	Homo sapiens Usurpin-alpha mRNA, complete cds
1804	14544	27259	1.59	1.0E-125	AF015450.1	NT	Homo sapiens Usurpin-alpha mRNA, complete cds
2358	15080	27816	1.88	1.0E-125	AA011278.1	EST_HUMAN	z61g06.r1 Scores_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429568 5'
2608	15225	27897	0.99	1.0E-125	AA042813.1	EST_HUMAN	z653c07.s1 Scores_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFATORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2604	15317	28057	1.3	1.0E-125	4504898	NT	Homo sapiens inhibin, alpha (INH) mRNA
2604	15317	28058	1.3	1.0E-125	4504898	NT	Homo sapiens inhibin, alpha (INH) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3009	17874	28425	0.94	1.0E-125	BE018009.1	EST_HUMAN	bb74f06.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3048131 5' similar to TR:Q250504 Q250504
3839	16590	28228	0.92	1.0E-125	AA042813.1	EST_HUMAN	ZINC FINGER PROTEIN. ;
4513	17248	29883	2.09	1.0E-125	11425114	NT	z453c07.s1 Soares_pregnant_uterus NIH-IPU Homo sapiens cDNA clone IMAGE:486540 3' similar to
4513	17248	29884	2.09	1.0E-125	11425114	NT	gb:X69357_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMPO7E (HUMAN);
4971	12861	25603	1.48	1.0E-125	BE219510.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
4971	12861	25604	1.48	1.0E-125	BE219510.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5783	18574	31503	3.18	1.0E-125	11438448	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5802	18592	31517	0.91	1.0E-125	BE175169.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5842	18630	31565	3.76	1.0E-125	BE982660.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5884	18670	31611	0.74	1.0E-125	AB179804.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
6188	18965	31638	0.8	1.0E-125	BE736055.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
6488	19253	32253	1.63	1.0E-125	BE562526.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
6488	19253	32254	1.53	1.0E-125	BE562526.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
6961	19443	32459	5.28	1.0E-125	X03427.1	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
6961	19443	32460	5.28	1.0E-125	X03427.1	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
7708	20370	33483	0.55	1.0E-125	BE515100.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
8444	21136	34273	0.99	1.0E-125	U60288.1	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
8444	21136	34274	0.99	1.0E-125	U60288.1	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
9016	21708	34856	6.83	1.0E-125	BE181640.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
9016	21708	34857	6.83	1.0E-125	BE181640.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
9281	22035	35207	0.96	1.0E-125	AB565998.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
10350	22997	36215	0.53	1.0E-125	BE794576.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
10391	23037	36253	1.06	1.0E-125	AB002298.1	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
10551	23276	36514	3.23	1.0E-125	AF043458.1	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
10758	23443	36888	1.91	1.0E-125	11425570	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
11081	23751	37026	3.94	1.0E-125	AB014567.1	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA

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Table 4
Single Evon Pmbes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF-SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11259	23921	37213	1.74	1.0E-125	7669505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
11265	23927	37218	4.84	1.0E-125	AF026029.1	NT	Homo sapiens poly(A) binding protein II (PABP2) gene, complete cds
11377	23984	37284	1.82	1.0E-125	AW812899.1	EST_HUMAN	RC3-ST0186-250200-075-c11 ST0186 Homo sapiens cDNA
11486	24087	37397	3.58	1.0E-125	BE074287.1	EST_HUMAN	QV3-BT0569-020200-075-g09 BT0569 Homo sapiens cDNA
11486	24087	37398	3.58	1.0E-125	BE074287.1	EST_HUMAN	QV3-BT0569-020200-075-g09 BT0569 Homo sapiens cDNA
757	13528	26189	1.46	1.0E-126	4758007	NT	Homo sapiens CDC-like kinase (CLK) mRNA
899	13657	26331	1.45	1.0E-126	X68735.1	NT	H. sapiens gene for alpha1-antichymotrypsin, exon 3
2344	15067	27804	1.17	1.0E-126	8923056	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2344	15067	27805	1.17	1.0E-126	8923056	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2605	15318	28059	1.48	1.0E-126	6382078	NT	Homo sapiens RAN binding protein 2 (RANBP2), mRNA
3069	15835	28479	0.72	1.0E-126	4604116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3070	15836	28479	7.54	1.0E-126	AA160709.1	EST_HUMAN	z072c03.r1 Stratagene pancreas (#837208) Homo sapiens cDNA clone IMAGE:592420 5'
3070	15836	28480	7.54	1.0E-126	AA160709.1	EST_HUMAN	z072c03.r1 Stratagene pancreas (#837208) Homo sapiens cDNA clone IMAGE:592420 5'
3620	16373	29014	1.09	1.0E-126	X53941.1	NT	H. sapiens DNA for liver cytochrome b5 pseudogene
3647	16400	29040	1.8	1.0E-126	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
4783	17515	30137	1.74	1.0E-126	N34078.1	EST_HUMAN	y078c06.r1 Soares melanocyte 2Nbl-IM Homo sapiens cDNA clone IMAGE:267950 5'
5078	17797	30413	0.81	1.0E-126	BE743922.1	EST_HUMAN	501677981F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3926885 5'
5616	18412	31325	0.68	1.0E-126	T66998.1	EST_HUMAN	y052b12.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:68527 3'
6139	18917	31887	3.22	1.0E-126	AA460075.1	EST_HUMAN	z068e03.r1 Soares total_fetus_Ncl2H-F8_9w Homo sapiens cDNA clone IMAGE:786444 5' similar to TR:G1145980 G1145980 TITIN:
6197	18973	31949	4.2	1.0E-126	AB040858.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
6197	18973	31950	4.2	1.0E-126	AB040858.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
7399	20077	33157	1.02	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7399	20077	33158	1.02	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7602	20268	33375	0.62	1.0E-126	AU136483.1	EST_HUMAN	AU136483 PLACE1 Homo sapiens cDNA clone PLACE1004325 5'
7655	20319	33428	0.69	1.0E-126	AB06483.1	EST_HUMAN	wf0801.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350009 3' similar to SW:MPP2_HUMAN Q14186 MAGUK P65 SUBFAMILY MEMBER 2;
7778	20473	33596	0.76	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
7778	20473	33597	0.76	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
7987	20582	33711	2.55	1.0E-126	X16609.1	NT	Human mRNA for anklyrin (variant 2.1)
8083	20777	33907	0.99	1.0E-126	AA483368.1	EST_HUMAN	ne74b12.s1 NCL_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:308983 similar to SW:TSG6_HUMAN
9695	22346	35539	0.87	1.0E-126	4505424	NT	P88066 TUMOR NECROSIS FACTOR-INDUCIBLE PROTEIN TSG-6 PRECURSOR; Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), splice variant 1, mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10693	23384	36624	1.27	1.0E-126	M83186.1	NT	Human macrophage mannose receptor (MRC1) gene, exon 5
10766	23450	36692	2.36	1.0E-126	BF683175.1	EST_HUMAN	602139138F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4298240 5'
11501	24102	37414	6.47	1.0E-126	BE261680.1	EST_HUMAN	601149404F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502129 5'
12490	17787	30413	7.17	1.0E-126	BE743922.1	EST_HUMAN	60157981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926685 5'
168	12882	25622	4.63	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
168	12882	25623	4.63	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
169	12882	25622	4.71	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
169	12882	25623	4.71	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
267	13075	25716	3.54	1.0E-127	AB07675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
267	13075	25717	3.54	1.0E-127	AB07675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
861	13630	26301	2.03	1.0E-127	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
866	13684	26330	1.37	1.0E-127	U72621.2	NT	Homo sapiens bat on transformation LOT1 mRNA, complete cds
1698	14430	27126	1.08	1.0E-127	4827053	NT	Homo sapiens ubiquitin specific protease 8 (USP8) mRNA
2058	14780	27515	2.44	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2058	14780	27516	2.44	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2197	14826	27661	6.02	1.0E-127	4506620	NT	Homo sapiens ribosomal protein L26 (RPL26) mRNA
2341	15064	27801	2.73	1.0E-127	AF245506.1	NT	Homo sapiens adiccan mRNA, complete cds
2614	15325	28068	3.04	1.0E-127	X12881.1	NT	Human mRNA for cyclokeratin 18
2626	15338	28081	1.1	1.0E-127	AA450131.1	EST_HUMAN	zx42a02.r1 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789098 5'
2626	15338	28082	1.1	1.0E-127	AA450131.1	EST_HUMAN	zx42a02.r1 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789098 5'
3791	16543	29178	1.21	1.0E-127	AW161297.1	EST_HUMAN	TRCQ15170 Q15170 TRANSCRIPTION FACTOR S-HRELATED PROTEIN contains element MER22 repetitive element;
4096	16838	29465	0.7	1.0E-127	AF135188.1	NT	Homo sapiens delayed rectifier potassium channel subunit Isk mRNA, complete cds
4227	16868	29592	23.74	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
4227	16868	29593	23.74	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
4462	17186	29824	0.94	1.0E-127	AF252297.1	NT	Homo sapiens cytochrome P450 retinoid metabolizing protein P450RAL-2 mRNA, complete cds
4594	17289	29926	4.35	1.0E-127	4503384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
4590	17325		1.92	1.0E-127	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4825	17360	29993	1.26	1.0E-127	6812639	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5620	18418	31329	1.37	1.0E-127	W03547.1	EST_HUMAN	z01a10.1 Soares melanocyte 2NbrIM Homo sapiens cDNA clone IMAGE:281258 5' similar to SW:PIPG_RAT P10888 1-PHOSPHATIDYLINOSITOL-4,5-BISPHOSPHATE PHOSPHODIESTERASE DELTA 1;
5650	18445	31359	2.4	1.0E-127	4826883	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
5713	18506	31428	4.25	1.0E-127	X85784.1	NT	H. sapiens NOS2 gene, exon 6
6070	18849	31813	2.17	1.0E-127	X94060.1	NT	H. sapiens TCF11 gene, exon 3-6
6228	19003	31979	5.28	1.0E-127	4504778	NT	Homo sapiens Integrin, beta 8 (ITGB8) mRNA
6560	19325	32332	0.89	1.0E-127	11421895	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3), mRNA
6982	19444	32461	0.81	1.0E-127	4826977	NT	Homo sapiens reelin (RELN) mRNA
7684	20348	33461	1.65	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7684	20348	33462	1.65	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7691	20355	33470	0.84	1.0E-127	AW988282.1	EST_HUMAN	QV3-BN0048-150300-121-h11 BN0046 Homo sapiens cDNA
8785	21477	34625	0.8	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8785	21477	34628	0.8	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
9540	22183	35377	4.17	1.0E-127	AF274883.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9540	22183	35378	4.17	1.0E-127	AF274883.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9773	22424	35631	1	1.0E-127	A1208832.1	EST_HUMAN	qmr4h09.x1 NCL_OGAP_Lu5 Homo sapiens cDNA clone IMAGE:1898449 3'
10241	22889	36101	1.34	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
11107	23777	37050	7.88	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 98 (mortalin-2) (H. sapiens) (LOC83184), mRNA
11107	23777	37051	7.88	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 98 (mortalin-2) (H. sapiens) (LOC83184), mRNA
11627	24224	37648	3.25	1.0E-127	BE895415.1	EST_HUMAN	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918917 5'
11627	24224	37647	3.25	1.0E-127	BE895415.1	EST_HUMAN	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918917 5'
12244	12982	25622	2.25	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12244	12982	25623	2.25	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12444	24814	31048	2.88	1.0E-127	AB011392.1	NT	Homo sapiens gene for AF-6, complete cds
447	13233	25873	3.04	1.0E-128	BE385617.1	EST_HUMAN	601278127F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618822 5'
2063	14795	27520	5.5	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2063	14795	27521	5.5	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2208	14834	27672	8.76	1.0E-128	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
2446	15165		1.1	1.0E-128	11437455	NT	Homo sapiens chromatin-specific transcription elongation factor, 140 kDa subunit (FACTP140), mRNA
3389	16148	28802	1.08	1.0E-128	AB033073.1	NT	Homo sapiens mRNA for KIAA1247 protein, partial cds

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4616	17351	26886	6.14	1.0E-128	11428873	NT	Homo sapiens prospero-related homeobox 1 (PROX1), mRNA
5458	18257	31147	0.7	1.0E-128	X99538.1	NT	H. sapiens gene for inter-alpha-trypsin inhibitor heavy chain H1, exon 12
5886	18672	31613	0.65	1.0E-128	BE747981.1	EST_HUMAN	601580466F-1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928057 5'
5886	18672	31614	0.65	1.0E-128	BE747981.1	EST_HUMAN	601580466F-1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928057 5'
6324	18084	32082	2.58	1.0E-128	11420666	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
6831	19483	32816	6.9	1.0E-128	BF224345.1	EST_HUMAN	7q66b10.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3905784 5'
7327	20010	33089	0.82	1.0E-128	BE614105.1	EST_HUMAN	601503848F-1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3905784 5'
7692	20356	33471	0.67	1.0E-128	11546823	NT	Homo sapiens putative ABC transporter (WHITE2), mRNA
8446	21138	34276	0.73	1.0E-128	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8446	21138	34277	0.73	1.0E-128	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10037	22685	35903	1.63	1.0E-128	AA639198.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
10608	23302	36541	3.52	1.0E-128	11425254	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10618	23311	36650	3.21	1.0E-128	AA929859.1	EST_HUMAN	ns04e11.1 NCI_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:1182620 similar to TR:G961338 G961338
10689	23390	36628	1.35	1.0E-128	AJ252060.1	NT	CHROMOSOME SEGREGATION GENE HOMOLOG CAS. ;
10761	23445	36889	1.4	1.0E-128	BE384475.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2D (GRIN2D), mRNA
12117	24610	26839	7.02	1.0E-128	AW955290.1	EST_HUMAN	arr68f08.s1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1562363 3' similar to gb:354941 CYCLIN-
118	13189	26839	1.33	1.0E-129	S37722.1	NT	DEPENDENT KINASES REGULATORY SUBUNIT 1 (HUMAN);
404	13189	26839	1.19	1.0E-129	S37722.1	NT	Homo sapiens mRNA for TRABID protein (TRABID gene)
1713	14456	27154	2.73	1.0E-129	AL096890.1	NT	Homo sapiens mRNA for TRABID protein (TRABID gene)
1717	14460	27158	1.57	1.0E-129	AF240786.1	NT	601277826F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618760 5'
1717	14460	27159	1.57	1.0E-129	AF240786.1	NT	EST:367360 IMAGE resequences, MAGC Homo sapiens cDNA
1838	14576	27289	2.78	1.0E-129	11418522	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
3125	15880	28531	1.21	1.0E-129	Q14585	SWISSPROT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
3125	15880	28532	1.21	1.0E-129	Q14585	SWISSPROT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
3125	15880	28533	1.21	1.0E-129	Q14585	SWISSPROT	Novel human mRNA containing Zinc finger C2H2 type domains
4143	16885	28516	1.94	1.0E-129	AB040892.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
4247	16988	28611	2.26	1.0E-129	AW755254.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
4247	16988	28612	2.26	1.0E-129	AW755254.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
							Homo sapiens zinc finger protein 76 (expressed in testis) (ZNF76), mRNA
							ZINC FINGER PROTEIN HZF10
							ZINC FINGER PROTEIN HZF10
							ZINC FINGER PROTEIN HZF10
							Homo sapiens mRNA for KIAA1459 protein, partial cds
							CNTA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151835 similar to CNTA5
							Cardiomyopathy associated gene 5
							CNTA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151835 similar to CNTA5
							Cardiomyopathy associated gene 5

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6000	18781	31742	3.73	1.0E-129	AJ006345.1	NT	Homo sapiens KVLQT1 gene
6816	19477	32499	0.96	1.0E-129	BE869993.1	EST_HUMAN	601449740F1 NIH_MGC 65 Homo sapiens cDNA clone IMAGE:3853688 5'
6816	19477	32500	0.86	1.0E-129	BE869993.1	EST_HUMAN	601449740F1 NIH_MGC 65 Homo sapiens cDNA clone IMAGE:3853688 5'
7027	19719	32776	4.15	1.0E-129	AJ006345.1	NT	Homo sapiens KVLQT1 gene
7090	19779	32844	3.93	1.0E-129	11420850	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
7428	20105	33181	2.49	1.0E-129	AF041058.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
7428	20105	33192	2.49	1.0E-129	AF041058.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
8217	20911	33835	3.94	1.0E-129	AB014534.1	NT	Homo sapiens mRNA for KIAA0634 protein, partial cds
8979	22627	36835	0.97	1.0E-129	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
8979	22627	36836	0.97	1.0E-129	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
10523	23169	36396	0.57	1.0E-129	AA682200.1	EST_HUMAN	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
11186	23651	37137	4	1.0E-129	AA625528.1	EST_HUMAN	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
11269	19779	32844	6.57	1.0E-129	11420850	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
11615	24213	37637	1.38	1.0E-129	AU143115.1	EST_HUMAN	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
11615	24213	37638	1.38	1.0E-129	AU143115.1	EST_HUMAN	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
12104	24601		1.79	1.0E-129	H83155.1	EST_HUMAN	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
12483	24842		2.66	1.0E-129	AL120739.1	EST_HUMAN	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
74	12901	25538	1.3	1.0E-130	7705530	NT	Homo sapiens hypothetical protein (HSPC242), mRNA
1147	13902	28564	0.69	1.0E-130	AB037836.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1661	14407	27098	11.38	1.0E-130	BE275192.1	EST_HUMAN	Homo sapiens mRNA for KIAA1414 protein, partial cds
1661	14407	27099	11.38	1.0E-130	BE275192.1	EST_HUMAN	Homo sapiens mRNA for KIAA1414 protein, partial cds
1976	14712		3.08	1.0E-130	X04092.1	NT	Human gene for catalase (EC 1.11.1.6) exon 9 mapping to chromosome 11, band p13
2773	15478		5.37	1.0E-130	AJ010230.1	NT	Human gene for catalase (EC 1.11.1.6) exon 9 mapping to chromosome 11, band p13
2881	16648	28290	1.17	1.0E-130	BE564219.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
2881	16648	28291	1.17	1.0E-130	BE564219.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
3565	16320	28968	1.09	1.0E-130	AF240698.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
3750	15648	28290	5.36	1.0E-130	BE564219.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
3750	15648	28291	5.36	1.0E-130	BE564219.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
3915	16665	28305	1.92	1.0E-130	AW503580.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
4053	16798	29428	1.5	1.0E-130	M97710.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
4501	17237	29869	6.76	1.0E-130	AW843993.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
5038	17757	30371	1.07	1.0E-130	AW363299.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
5038	17757	30372	1.07	1.0E-130	AW363299.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6628	18391	32405	0.55	1.0E-130	X57825.1	NT	Human germline immunoglobulin lambda light chain pseudogene (VL1)
6723	19557	32587	0.81	1.0E-130	AW943875.1	EST_HUMAN	CNM-CNM046-170200-225-g03 CNM045 Homo sapiens cDNA
6723	19557	32588	0.81	1.0E-130	AW943875.1	EST_HUMAN	CNM-CNM045-170200-225-g03 CNM045 Homo sapiens cDNA
6736	19570	32602	0.75	1.0E-130	11425448	NT	Homo sapiens estrogen-responsive B box protein (EBBP), mRNA
7154	10841	32910	2.62	1.0E-130	11416777	NT	Homo sapiens soluble carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
8582	21274		0.45	1.0E-130	AF008551.1	NT	Homo sapiens aurora-related kinase 1 (ARK1) mRNA, complete cds
8719	21410	34553	2.39	1.0E-130	AW956242.1	EST_HUMAN	EST368312 IMAGE resequences, MAGD Homo sapiens cDNA
9114	21802	34967	1.64	1.0E-130	AB037768.1	NT	Homo sapiens mRNA for KIAA1335 protein, partial cds
9833	22484		1.25	1.0E-130	AW103454.1	EST_HUMAN	xd38a08.x1 NC1_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2505874 3'
10463	23109	36340	0.51	1.0E-130	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
10463	23109	36341	0.51	1.0E-130	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
11242	23804	37194	1.72	1.0E-130	8923197	NT	Homo sapiens hypothetical protein FLJ20208 (FLJ20208), mRNA
11242	23804	37185	1.72	1.0E-130	8923197	NT	Homo sapiens hypothetical protein FLJ20208 (FLJ20208), mRNA
11703	24288	37624	2.67	1.0E-130	4504142	NT	Homo sapiens glutamate receptor, metabotropic 5 (GRM5) mRNA
12759	15478		1.56	1.0E-130	AJ010230.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
4	12832	25445	1.9	0.0E+00	AA228128.1	EST_HUMAN	zr58a04.r1 Soares_NIHMPu S1 Homo sapiens cDNA clone IMAGE:667560 5' similar to TR:G222811
4	12832	25446	1.9	0.0E+00	AA228128.1	EST_HUMAN	G222811 ALPHA 1 CHAIN OF TYPE XI COLLAGEN.;
7	12834	25449	1.02	0.0E+00	4885136	NT	zr58a04.r1 Soares_NIHMPu S1 Homo sapiens cDNA clone IMAGE:667560 5' similar to TR:G222811
14	12841	25454	0.72	0.0E+00	8923349	NT	G222811 ALPHA 1 CHAIN OF TYPE XI COLLAGEN.;
14	12841	25455	0.72	0.0E+00	8923349	NT	Homo sapiens checkpoint suppressor 1 (CHES1), mRNA
20	12848	25462	6.7	0.0E+00	D83327.1	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
20	12848	25463	6.7	0.0E+00	D83327.1	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
25	12853	25468	17.04	0.0E+00	AF141349.1	NT	Homo sapiens DCRR1 mRNA, partial cds
33	12861	25478	1.19	0.0E+00	5802897	NT	Homo sapiens DCRR1 mRNA, partial cds
35	12863	25481	0.82	0.0E+00	M58600.1	NT	Homo sapiens DCRR1 mRNA, complete cds
39	12867	25486	4.22	0.0E+00	6857825	NT	Homo sapiens beta-tubulin mRNA, complete cds
55	12884	25512	0.76	0.0E+00	Y17151.2	NT	Homo sapiens Cdc42 effector protein 2 (CEP2), mRNA
55	12884	25513	0.76	0.0E+00	Y17151.2	NT	Homo sapiens Cdc42 effector protein 2 (CEP2), mRNA
56	12885	25514	3.04	0.0E+00	D78804.1	EST_HUMAN	Human heparin cofactor II (HCF2) gene, exons 1 through 5
56	12885	25515	3.04	0.0E+00	D78804.1	EST_HUMAN	Homo sapiens RNA-binding protein S1, serine-rich domain (RNPS1), mRNA
57	12886	25516	5.76	0.0E+00	L16558.1	NT	Homo sapiens RNA for multidrug resistance protein 3 (ABCC3)

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
59	12888	25519	12.55	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr48e07 3'
59	12888	25520	12.55	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr48e07 3'
53	12891	25524	1.5	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
65	12893		0.91	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
73	12900	25536	10.36	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
73	12900	25537	10.36	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
76	12900	25536	10.18	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
76	12900	25537	10.18	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
80	12906	25544	0.78	0.0E+00	4501850	NT	Homo sapiens ameliorate binding protein 1 (amine oxidase (copper-containing)) (ABP1), nuclear gene encoding mitochondrial protein, mRNA
81	12907		15.25	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
80	12916	25553	17.68	0.0E+00	5016088	NT	Homo sapiens actin, beta (ACTB) mRNA
83	12919	25556	23.26	0.0E+00	U89277.1	NT	Human polyomavirus 1 homolog (HPH1) mRNA, partial cds
99	12925	25562	3.51	0.0E+00	AI114743.1	EST_HUMAN	HA1347 Human fetal liver cDNA library Homo sapiens cDNA
100	12926	25563	1.72	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
105	12928	25566	1.33	0.0E+00	X91213.1	NT	H. sapiens nact gene (exon 2)
113	12935	25572	0.89	0.0E+00	AI623701.1	EST_HUMAN	ts38e05.x1 NCI CGAP_U14 Homo sapiens cDNA clone IMAGE:2280833 3' similar to TR:Q89551 Q89551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR ;
114	12935	25572	1.47	0.0E+00	AI623701.1	EST_HUMAN	ts38e05.x1 NCI CGAP_U14 Homo sapiens cDNA clone IMAGE:2280833 3' similar to TR:Q89551 Q89551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR ;
115	15513	25573	1.48	0.0E+00	N36040.1	EST_HUMAN	Y01H09.11 Soares melanocyte 2NHIM Homo sapiens cDNA clone IMAGE:270017 5'
115	15513	25574	1.48	0.0E+00	N36040.1	EST_HUMAN	Y01H09.11 Soares melanocyte 2NHIM Homo sapiens cDNA clone IMAGE:270017 5'
128	12943	25586	4.38	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220KD) (POLR2A) mRNA
128	12943	25587	4.38	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220KD) (POLR2A) mRNA
136	12950	25593	1.29	0.0E+00	T56945.1	EST_HUMAN	ye83g04.12 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
136	12950	25594	1.29	0.0E+00	T56945.1	EST_HUMAN	ye83g04.12 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
149	12964		8.88	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
153	12968	25609	2.1	0.0E+00	BF036881.1	EST_HUMAN	601460375F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3863803 5'
155	12970		25.83	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
158	12973	25612	1	0.0E+00	AF111168.2	NT	Homo sapiens sorbin palmitoyl transferase, subunit II gene, complete cds; and unknown genes
160	12975	25613	1.15	0.0E+00	BE295973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529864 5'
161	12975	25613	0.88	0.0E+00	BE295973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529864 5'
162	12976	25614	5.4	0.0E+00	W73973.1	EST_HUMAN	z062b05.11 Soares fetal heart_NbIH19W Homo sapiens cDNA clone IMAGE:345201 5' similar to gb:K16282_cds1 ZINC FINGER PROTEIN CLONE 947 (HUMAN);

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
163	12877	25615	0.81	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-404 HT0457 Homo sapiens cDNA
163	12877	25616	0.81	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-404 HT0457 Homo sapiens cDNA
164	12878	25617	1.42	0.0E+00	AF244088.1	NT	Homo sapiens zinc finger protein mRNA, complete cds
167	12881	25620	28.73	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
167	12881	25621	28.73	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
176	12888	25627	5.95	0.0E+00	BE018970.1	EST_HUMAN	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2063854 5' similar to WP:Y57A10A.Z CE22631;
178	12888	25628	5.95	0.0E+00	BE018970.1	EST_HUMAN	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2063854 5' similar to WP:Y57A10A.Z CE22631;
181	12893	25631	3.05	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
181	12893	25632	3.05	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
188	13002	25643	67.77	0.0E+00	D50659.1	NT	Human gamma-cytoplasmic actin (ACTGP9) pseudogene
194	13007	25648	3.74	0.0E+00	AF273045.1	NT	Homo sapiens CTC1 tumor antigen set14-3 mRNA, complete cds
194	13007	25649	3.74	0.0E+00	AF273045.1	NT	Homo sapiens CTC1 tumor antigen set14-3 mRNA, complete cds
198	13009	25651	4.81	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
198	13009	25652	4.81	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
205	15537	25658	9.26	0.0E+00	AI587308.1	EST_HUMAN	tp04f08.x1 NCI_CGAP_U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03181 PROFILIN1 (HUMAN);
205	15537	25659	9.26	0.0E+00	AI587308.1	EST_HUMAN	tp04f08.x1 NCI_CGAP_U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03181 PROFILIN1 (HUMAN);
207	13019	25661	3.08	0.0E+00	AF195658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
209	13021		23.37	0.0E+00	4506632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
210	13022		4.72	0.0E+00	AF132000.1	NT	Homo sapiens TADA1 protein mRNA, complete cds
214	13026	25664	8.19	0.0E+00	AB018284.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
216	13026	25664	8.34	0.0E+00	AB018284.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
216	13027	25665	3.5	0.0E+00	6678444	NT	Mus musculus testis-specific protein, Y-encoded-like (TespY), mRNA
229	13041	25678	1.23	0.0E+00	AB018301.1	NT	Homo sapiens mRNA for KIAA0768 protein, partial cds
229	13041	25679	1.23	0.0E+00	AB018301.1	NT	Homo sapiens mRNA for KIAA0768 protein, partial cds
231	13042	25682	3.97	0.0E+00	5453805	NT	Homo sapiens NS1-associated protein 1 (NSAP1) mRNA
239	13044		6.94	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
240	13049	25688	3.85	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
242	13051	25691	1.71	0.0E+00	X89772.1	NT	H. sapiens mRNA for Interferon alpha/beta receptor (long form)
250	13059		9.14	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
263	13071	25710	1.88	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
263	13071	25711	1.88	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
265	13073	25713	3.07	0.0E+00	7706028	NT	Homo sapiens hypothetical protein (LOC51250). mRNA
276	13083		1.19	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
277	13084	25726	3.28	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
277	13084	25727	3.28	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
278	13085		0.78	0.0E+00	AW845283.1	EST_HUMAN	IL2-CT0031-181198-020-B03 CT0031 Homo sapiens cDNA
287	13093	25734	6.65	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
287	13093	25735	6.65	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
287	13103	25744	4.97	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
288	13104	25745	4.63	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
289	15540		4.23	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
300	13105		3.76	0.0E+00	AA480002.1	EST_HUMAN	zv18-06.r1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:763884 5'
301	13106	25746	18.83	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
302	13106	25746	18.53	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
306	13110	25750	2.33	0.0E+00	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
319	13122	25769	4.97	0.0E+00	7957273	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
320	13122	25769	6.23	0.0E+00	7957273	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
							Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
335	13136	25771	2.66	0.0E+00	5174574	NT	Homo sapiens X-box binding protein 1 (XBP1) mRNA
338	13139	25775	1.71	0.0E+00	4827057	NT	Human zinc finger protein zfp31 (zfp31) mRNA, partial cds
341	13142	25780	1.45	0.0E+00	U71600.1	NT	Homo sapiens chromosome 21 unknown mRNA
346	13146	25784	2.42	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
346	13146	25785	2.42	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
347	15541	25786	3.84	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
349	13148	25788	2.33	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
352	13151	25792	0.94	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
353	13152	25793	4.1	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
354	13152	25793	1.9	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
356	13154	25795	1.89	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
367	13163	25806	1.07	0.0E+00	AU134983.1	EST_HUMAN	AU134983 PLACE1 Homo sapiens cDNA clone PLACE1000899 5'
378	13203	25849	8.31	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
							q961105.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2018457 3' similar to gb:U54199
379	13204	25850	1.54	0.0E+00	A1963014.1	EST_HUMAN	PHOSPHORIBOSYLAMINE-GLYCINE LIGASE (HUMAN);
383	13170	25813	1.83	0.0E+00	AW754180.1	EST_HUMAN	RC2-CT0320-300100-018-g08 CT0320 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
386	13172	25816	1.58	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
387	13173	25817	2.49	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
387	13173	25818	2.49	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
387	13173	25819	1.17	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
388	13174	25820	1.39	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
388	13175	25821	1.39	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
389	13176	25822	2.77	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
391	13177	25823	0.84	0.0E+00	4503680	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
392	13178	25824	1.35	0.0E+00	4503680	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
392	13178	25825	1.35	0.0E+00	4503680	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
393	13178	25826	1.07	0.0E+00	4503680	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
393	13178	25827	1.07	0.0E+00	4503680	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
397	13182	25835	28.13	0.0E+00	4503680	NT	Homo sapiens ribosomal protein L19 (RPL19) mRNA
411	12822	25435	1.5	0.0E+00	R17795.1	EST_HUMAN	yg08a02.1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:31652.5
419	13205	25851	1.31	0.0E+00	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylmethylidazole synthetase (GART) mRNA
420	13206		3.18	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
421	13207	25852	3.83	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
422	13208	25853	5.45	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
422	13208	25854	5.45	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
423	13209	25855	4.02	0.0E+00	AF193607.1	NT	Mus musculus truncated SON protein (Son) mRNA, complete cds
433	13219	25865	1.98	0.0E+00	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
438	13224		2.01	0.0E+00	AA324262.1	EST_HUMAN	EST27054 Cerebellum II Homo sapiens cDNA 5' end
439	13225		0.97	0.0E+00	BE254447.1	EST_HUMAN	601111520F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3362348.5
455	13241	25879	3.15	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
455	13241	25880	3.15	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
461	13246	25888	1.23	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
461	13246	25889	1.23	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
471	13257	25895	2.04	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
472	13258	25896	9.28	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
472	13258	25897	9.28	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
481	13268	25902	3.46	0.0E+00	AB033035.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
483	13268	25904	1.97	0.0E+00	AL132898.1	EST_HUMAN	AU132898 NT2RP4 Homo sapiens cDNA clone NT2RP-400837.5
491	13276	25910	2.66	0.0E+00	BE385144.1	EST_HUMAN	601274951F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615756.5

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
492	15343	25911	1.11	0.0E+00	AW838826.1	EST_HUMAN	PMO-DT0065-130400-002-c08 DT0065 Homo sapiens cDNA
494	13278	25913	1.33	0.0E+00	AL117233.1	NT	Novel human gene mapping to chromosome 1
495	13279	25914	1.27	0.0E+00	8923955	NT	Homo sapiens PC328 protein (PC328), mRNA
499	13283		0.77	0.0E+00	BF373403.1	EST_HUMAN	IL2-FT0159-070800-120-F07 FT0159 Homo sapiens cDNA
506	13280	25924	5.37	0.0E+00	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
513	15544	25928	1.29	0.0E+00	BE081527.1	EST_HUMAN	QV2-BT0635-160400-142-h05 BT0635 Homo sapiens cDNA
518	13302	25934	1.14	0.0E+00	BF028005.1	EST_HUMAN	601764858F1 NIH_MGC 53 Homo sapiens cDNA clone IMAGE:3686998 5'
524	13308	25941	1.88	0.0E+00	AB040909.1	NT	Homo sapiens mRNA for KIAA1478 protein, partial cds
527	13311	25944	27.88	0.0E+00	6008030	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCB31L) mRNA
528	13312	25945	4.33	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
528	13312	25946	4.33	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
530	13314	25948	0.97	0.0E+00	8923831	NT	Homo sapiens anillin (LOC54443), mRNA
530	13314	25949	0.97	0.0E+00	8923831	NT	Homo sapiens anillin (LOC54443), mRNA
535	13318		5.82	0.0E+00	AF003528.1	NT	Homo sapiens X-linked aniridia ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
543	13323	25958	1.89	0.0E+00	AW135324.1	EST_HUMAN	UI-H-BH1-acb-h-04-0-U1-s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2713951 3'
553	13336		8	0.0E+00	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
572	13353	25982	2.83	0.0E+00	5174742	NT	Homo sapiens ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 (UQCRCF1), nuclear gene encoding mitochondrial protein, mRNA
585	13365		7	0.0E+00	J04098.1	NT	Human apolipoprotein A-I (ApoA-I) gene, exon 1
588	13368	25996	1.83	0.0E+00	BF104898.1	EST_HUMAN	601822627F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4045447 5'
590	13370	25998	0.98	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
590	13370	25999	0.98	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
595	13373	26002	0.78	0.0E+00	4501854	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
600	13378	26008	1.15	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
600	13378	26009	1.15	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
609	13387	26018	3.18	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
612	13390	26021	1.2	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
613	13391	26022	3.83	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
613	13391	26023	3.83	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
614	13392	26024	0.92	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
614	13392	26025	0.92	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
620	13398	26034	1.35	0.0E+00	AA359486.1	EST_HUMAN	260c07.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726732 5'
624	13403	26038	10.1	0.0E+00	D111078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element

Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
628	13407	26041	0.76	0.0E+00	W76811.1	EST_HUMAN	zh51b04.r1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:415587 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
628	13407	26042	0.76	0.0E+00	W76811.1	EST_HUMAN	zh51b04.r1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:415587 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
631	13410		4.99	0.0E+00	4885526	NT	Homo sapiens novel SH2-containing protein 3 (NSP3) mRNA
638	13417	26054	2.88	0.0E+00	6006003	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2B (GRIN2B) mRNA
640	13419	26057	1.17	0.0E+00	5031624	NT	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA
643	13422	26061	2.53	0.0E+00	U05235.1	NT	Human neutral amino acid transporter (ASCT1) gene, exon 8
647	13428	26064	1.07	0.0E+00	AF108398.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
647	13428	26066	1.07	0.0E+00	AF108398.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
653	13431	26070	4.98	0.0E+00	4828947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
653	13431	26071	4.98	0.0E+00	4828947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
659	15547		1.15	0.0E+00	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
667	13443	26084	10.4	0.0E+00	4504424	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 1 (HMG1) mRNA
672	13448	26088	4.49	0.0E+00	AB028012.1	NT	Homo sapiens mRNA for KIAA1089 protein, partial cds
681	13459	26101	2.43	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
683	13468	26115	9.24	0.0E+00	AA614537.1	EST_HUMAN	np49d01.s1 NC1 CGAP_Brl.1 Homo sapiens cDNA clone IMAGE:1128633 3' similar to gb:X57352 INTERFERON-INDUCIBLE PROTEIN 1-8U (HUMAN);
688	13471	26119	4.34	0.0E+00	M60875.1	NT	Human von Willebrand factor gene, exons 23 through 34
688	13471	26120	4.34	0.0E+00	M60875.1	NT	Human von Willebrand factor gene, exons 23 through 34
708	13481	26128	1.71	0.0E+00	5032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
712	13486	26135	4.95	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
712	13486	26138	4.95	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
714	13488	26139	12.29	0.0E+00	11545800	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
719	13493	26146	2.12	0.0E+00	BE241577.1	EST_HUMAN	TCAAP1D0779 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0779
739	13512	26170	1.07	0.0E+00	AF226930.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
739	13512	26171	1.07	0.0E+00	AF226930.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
740	13513	26172	2.41	0.0E+00	AF170492.1	NT	Homo sapiens chloride channel ClC4 (ClC4) mRNA, complete cds
743	13516	26175	1.07	0.0E+00	J03784.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
743	13516	26176	1.07	0.0E+00	J03784.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
746	13519	26177	1.39	0.0E+00	6912749	NT	Homo sapiens zinc finger protein 212 (ZNF212), mRNA
748	15551	26178	1.96	0.0E+00	D30812.1	NT	Homo sapiens mRNA for repressor protein, partial cds
749	13521	26180	3.01	0.0E+00	BE869735.1	EST_HUMAN	601445647F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849803 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
752	13524	26183	3.51	0.0E+00	R48915.1	EST_HUMAN	Y69g08.r1 Soares breast 2NB-HBst Homo sapiens cDNA clone IMAGE:164046 5'
753	13525	26184	2.4	0.0E+00	5032086	NT	Homo sapiens splicing factor 3a, subunit 1, 120kD (SF3A1), mRNA
761	13533	26182	2.07	0.0E+00	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
764	13537	26188	2.34	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
775	13547	26208	1.18	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
775	13547	26209	1.18	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
780	13552	26213	2.13	0.0E+00	X89772.1	NT	H. sapiens mRNA for interferon alpha/beta receptor (long form)
784	13556	26217	5.97	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
784	13556	26218	5.97	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
788	13560	26222	9.88	0.0E+00	5174478	NT	Homo sapiens perlecanin (PCNT) mRNA
789	13561		11.63	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
805	13577	26242	1.98	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
808	13578	26243	4.28	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
808	13580	26245	2.81	0.0E+00	4557686	NT	Homo sapiens potassium voltage-gated channel, Isk-related family, member 1 (KCNE1) mRNA
814	13585	26251	1.39	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
814	13585	26252	1.39	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
819	13590	26257	1.58	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
823	13593	26262	2.09	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
823	13593	26263	2.09	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
830	13600		1.32	0.0E+00	AF027183.1	NT	Homo sapiens sodium/myo-inositol cotransporter (SLC5A3) gene, complete cds
834	13604	26274	4.62	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
834	13604	26276	4.62	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
835	13606	26278	9.56	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
836	13606	26277	4.34	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
837	13607	26278	0.8	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
841	13611	26281	2.2	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
841	13611	26282	2.2	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
842	13612	26283	2.45	0.0E+00	AA533272.1	EST_HUMAN	ij66407.s1 NCL CGAP_P10 Homo sapiens cDNA clone IMAGE:997453
842	13612	26284	2.45	0.0E+00	AA533272.1	EST_HUMAN	ij66407.s1 NCL CGAP_P10 Homo sapiens cDNA clone IMAGE:997453
843	13613		9.44	0.0E+00	BF677694.1	EST_HUMAN	602085578F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915 5'
847	13617	26285	1.94	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
847	13617	26286	1.94	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
848	13618	26287	3.31	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
848	13618	26288	3.31	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
871	13640	26311	0.91	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
878	13647	26316	2.67	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
878	13647	26317	2.57	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
883	13657	26326	6.48	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
888	13668		4.89	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA
900	13668		8.49	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA
901	13668	26332	1.21	0.0E+00	AF089747.1	NT	Homo sapiens alpha-1-antitrypsin precursor, mRNA, partial cds
902	13669	26333	1.78	0.0E+00	L28101.1	NT	Homo sapiens kallistatin (Pl4) gene, exons 1-4, complete cds
905	13672	26336	1.05	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
905	13672	26337	1.05	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
926	13683	26356	2.98	0.0E+00	AB023211.1	NT	Homo sapiens mRNA for KIAA0894 protein, partial cds
926	13683	26357	2.98	0.0E+00	AB023211.1	NT	Homo sapiens mRNA for KIAA0894 protein, partial cds
931	13698	26362	1.19	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
932	13699	26363	9.05	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
933	13700	26364	0.9	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
934	13701	26365	2.18	0.0E+00	4507430	NT	Homo sapiens thymidylate synthase factor (TEF), mRNA
934	13701	26366	2.18	0.0E+00	4507430	NT	Homo sapiens thymidylate synthase factor (TEF), mRNA
942	15558	26373	3.38	0.0E+00	AI001948.1	EST_HUMAN	os98a03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
942	15558	26374	3.38	0.0E+00	AI001948.1	EST_HUMAN	os98a03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
943	13709	26375	9.49	0.0E+00	7657266	NT	Homo sapiens KIAA0829 protein Mes2 interacting nuclear target (MINT) homolog (KIAA0829), mRNA
954	13719	26385	3.18	0.0E+00	AB030566.1	NT	Homo sapiens mRNA for PSP24, complete cds
962	13727	26391	1.11	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
962	13727	26392	1.11	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
962	13727	26393	1.11	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
963	13728	26394	1.69	0.0E+00	X52207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
963	13728	26395	1.69	0.0E+00	X52207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
972	13737	28402	2.03	0.0E+00	4757869	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
984	13748	28410	1.66	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
985	13749	28411	50.9	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
986	13749	28411	26.17	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
989	13752		5.52	0.0E+00	AF198480.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFAZT1) gene, partial cds
989	13752		8.64	0.0E+00	AF198480.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFAZT1) gene, partial cds
993	13755	28416	1.17	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
994	13755	26416	1.83	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
995	13755	26416	2.3	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
998	13756	26417	3.76	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
999	13759	26420	3.06	0.0E+00	7661885	NT	Homo sapiens DKFZP688M0122 protein (DKFZP688M0122), mRNA
1003	13763	26424	2.5	0.0E+00	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1004	13764		1.43	0.0E+00	AA458680.1	EST_HUMAN	aa86g07.s1 Strabagene fetal retina 637202 Homo sapiens cDNA clone IMAGE:836236 3' similar to SW:PR58_HUMAN P47210 26S PROTEASE REGULATORY SUBUNIT 8;
1007	13767	26428	1.9	0.0E+00	N43182.1	EST_HUMAN	EST5124 WATM1 Homo sapiens cDNA clone 5124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1007	13767	26428	1.9	0.0E+00	N43182.1	EST_HUMAN	EST5124 WATM1 Homo sapiens cDNA clone 5124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1010	13770		3.55	0.0E+00	8922833	NT	Homo sapiens hypothetical protein FLJ111196 (FLJ11196), mRNA
1025	13785	26445	2.49	0.0E+00	4758569	NT	Homo sapiens heat shock 70kD protein 98 (hsc70-2) (HSPA98), mRNA
1043	13802	26480	1.89	0.0E+00	4828872	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6), mRNA
1043	13802	26481	1.89	0.0E+00	4828872	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6), mRNA
1047	13806	26485	3.63	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1047	13806	26486	3.63	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1048	13807	26487	119.02	0.0E+00	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
1050	13808		1.19	0.0E+00	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1052	13811	26471	3.52	0.0E+00	5174894	NT	Homo sapiens alkylated protein 3 (DAP3), mRNA
1060	13818	26480	2.3	0.0E+00	4758117	NT	Homo sapiens Death associated protein 3 (DAP3), mRNA
1074	13832	26480	2.2	0.0E+00	BE005208.1	EST_HUMAN	MRO-BN0115-200300-003-h08 BN0115 Homo sapiens cDNA
1097	13855	26514	6.04	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1097	13855	26515	6.04	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 8 (KCNK8), mRNA
1097	13855	26526	0.9	0.0E+00	4828947	NT	Homo sapiens protein kinase, X-linked (PRKX), mRNA
1110	13867	26526	0.9	0.0E+00	4828947	NT	Homo sapiens protein kinase, X-linked (PRKX), mRNA
1110	13867	26528	0.8	0.0E+00	4508712	NT	Homo sapiens ribosomal protein S27a (RPS27A), mRNA
1111	13868	26527	4.27	0.0E+00	4508712	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
1113	13870	26528	0.96	0.0E+00	8923290	NT	Homo sapiens DNA for Human P2X4, complete cds
1116	13873	26532	23.77	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2X4, complete cds
1118	13876	26533	44.3	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2X4, complete cds
1119	13876	26534	5.51	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1119	13876	26535	5.51	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1122	13878	26537	1.1	0.0E+00	7706500	NT	Homo sapiens Npw38-binding protein Npw38P (LOC51729), mRNA
1123	13879	26538	0.87	0.0E+00	X95826.1	NT	H. sapiens ART4 gene

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No:	Top Hit Database Source	Top Hit Descriptor
1123	13879	26539	0.87	0.0E+00	X65928.1	NT	H. sapiens ART4 gene
1124	13880	26540	0.92	0.0E+00	AI147650.1	EST_HUMAN	qb22d10.x1 Soares_pregnant_uterus_NH4PU Homo sapiens cDNA clone IMAGE:1687011 3'
1126	13882	26542	1.58	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1133	13889	26548	0.71	0.0E+00	4739081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1133	13889	26549	0.71	0.0E+00	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1134	13890	26550	1.39	0.0E+00	9668944	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
1145	13900	26561	8.83	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1145	13900	26562	8.83	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD26, mRNA
1148	13903	26565	1.85	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1155	13910	26574	0.76	0.0E+00	4567887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1167	13921	26583	4.54	0.0E+00	AF034986.1	NT	Homo sapiens amphiphysin 1 mRNA, alternative splice isoform, complete cds
1187	13939		1.52	0.0E+00	7657336	NT	Homo sapiens hypothetical protein FLJ10687 (FLJ10687), mRNA
1201	13953	26617	1.7	0.0E+00	8922633	NT	Homo sapiens ALR-like protein mRNA, partial cds
1204	13956	26620	1.63	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1204	13956	26621	1.53	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1205	13957	26622	1.77	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1206	15602	26623	1.63	0.0E+00	AF264750.1	NT	Homo sapiens chromosome 3 subtelomeric region
1224	13974	26646	9.12	0.0E+00	AF109718.1	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1225	13975	26647	1.71	0.0E+00	4503098	NT	Homo sapiens NIF2 gene
1243	13992		2.93	0.0E+00	Y18000.1	NT	Homo sapiens ribosomal protein S2 (RP-S2) mRNA
1261	14000	26667	23.59	0.0E+00	4506718	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cds
1268	14007	26676	3.07	0.0E+00	AF094479.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1265	14014	26681	2.07	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1266	14014	26682	2.07	0.0E+00	AB040940.1	NT	Homo sapiens Wdrifam syndrome (WFS) mRNA
1277	14027	26695	2.04	0.0E+00	5174748	NT	Homo sapiens Wdrifam syndrome (WFS) mRNA
1277	14027	26696	2.04	0.0E+00	5174748	NT	Homo sapiens Wdrifam syndrome (WFS) mRNA
1277	14027	26697	2.04	0.0E+00	5174748	NT	Homo sapiens Wdrifam syndrome (WFS) mRNA
1278	14028		3.78	0.0E+00	AF068156.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 5
1288	15584	26709	1.63	0.0E+00	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1288	15584	26710	1.63	0.0E+00	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1293	14042	26715	2.03	0.0E+00	5803146	NT	Homo sapiens ring finger protein 9 (RNFB), mRNA
1294	14043	26716	0.89	0.0E+00	4508004	NT	Homo sapiens zinc finger protein 173 (ZNF173) mRNA
1296	14045	26717	1.12	0.0E+00	5803146	NT	Homo sapiens ring finger protein 9 (RNFB), mRNA
1297	14046	26718	0.72	0.0E+00	4508004	NT	Homo sapiens zinc finger protein 173 (ZNF173) mRNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1298	14048	26720	4.71	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1300	14049	26721	2.04	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1301	14050	26722	5.88	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1302	14051	26723	3.01	0.0E+00	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1302	14051	26724	3.01	0.0E+00	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1314	14062	26737	1.82	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
1367	14134	26809	1.38	0.0E+00	AJ250014.1	NT	Homo sapiens mRNA for Familial Cylindromatosis cyd gene
1393	14140	26817	3.39	0.0E+00	AJ277692.1	NT	Homo sapiens partial TTN gene for titin
1396	14143	26821	1.59	0.0E+00	AJ208766.1	EST_HUMAN	qg38b06.x1 Soares_testie_NHT Homo sapiens cDNA clone IMAGE:1837427 3' similar to WP:T27A1.5 CE14213;
1397	14144	26822	13.21	0.0E+00	6042208	NT	RAN, member RAS oncogene family-Homo sapiens RAN, member RAS oncogene family (RAN), mRNA
1406	14153	26833	6	0.0E+00	4505846	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1406	14153	26834	5	0.0E+00	4505846	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1408	14155	26837	4.08	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1408	14155	26838	4.08	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1410	14157	26839	4.59	0.0E+00	AJ238093.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
1420	14168	26852	3.02	0.0E+00	AF038280.1	NT	Homo sapiens alpha1-6fucosyltransferase (alpha1-6fucT) gene, exon 7
1431	14178	26863	5.39	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1431	14178	26864	5.39	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1436	14183	26868	17.93	0.0E+00	U35637.1	NT	Human nebulin mRNA, partial cds
1436	14183	26869	17.93	0.0E+00	U35637.1	NT	Human nebulin mRNA, partial cds
1449	14193	26876	2.59	0.0E+00	AL132899.1	NT	Novel human gene on chromosome 20
1447	14194	26877	1.82	0.0E+00	AL132899.1	NT	Novel human gene mapping to chromosome 1
1451	14198	26882	1.73	0.0E+00	D87077.1	NT	Human mRNA for KIAA0240 gene, partial cds
1454	14201	26885	4.53	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA00330), mRNA
1456	14203	26887	1.65	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1456	14203	26888	1.55	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1460	14207	26893	0.97	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1460	14207	26894	0.97	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1500	14246	26932	1.37	0.0E+00	7708434	NT	Homo sapiens hHDC for homolog of Drosophila headcase (LOC51696), mRNA
1516	14283	26949	1.21	0.0E+00	AW958687.1	EST_HUMAN	EST371767 MAGE resequences, MAGF Homo sapiens cDNA
1517	14264	26950	1.76	0.0E+00	AA481172.1	EST_HUMAN	aa34a03.t1 NC1_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815116 5'
1522	14269	26953	49.82	0.0E+00	AF023880.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1522	14269	26954	49.82	0.0E+00	AF023880.1	NT	Carotipifucus aestivus cyclophilin A mRNA, complete cds
1524	14271	26957	1.24	0.0E+00	AW976097.1	EST_HUMAN	EST388208 MAGE resequences, MAGN Homo sapiens cDNA
1524	14271	26958	1.24	0.0E+00	AW976097.1	EST_HUMAN	EST388208 MAGE resequences, MAGN Homo sapiens cDNA
1525	14272	26959	5.49	0.0E+00	D10884.1	NT	Bovine mRNA for neuro-calcin
1527	14274		2.07	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1528	14275	26962	2.1	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1528	14275	26963	2.1	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1530	14277	26965	3.3	0.0E+00	7662405	NT	Homo sapiens KIAA0867 protein (KIAA0867), mRNA
1531	14278		7.29	0.0E+00	7656972	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
1537	14284	26971	1.84	0.0E+00	M88478.1	NT	Human transglutaminase mRNA, complete cds
1540	14287	26973	3.72	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1540	14287	26974	3.72	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1541	15572		11.72	0.0E+00	4506654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
1542	14288	26975	11.72	0.0E+00	M14198.1	NT	Human laminin receptor (2H5 epitope) mRNA, 5' end
1553	14300	26988	2.86	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1553	14300	26989	2.86	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1555	14302	26990	11.7	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1563	14310		1.21	0.0E+00	D00333.1	NT	human o-yea-2 gene
1574	14321	27007	1.65	0.0E+00	Z83738.1	NT	H. sapiens H128/e gene
1575	14322	27008	1.59	0.0E+00	5921480	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1575	14322	27009	1.59	0.0E+00	5921480	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1576	14323	27010	11.18	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GKG Homo sapiens cDNA clone GKCB0F02 5'
1576	14323	27011	11.18	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GKG Homo sapiens cDNA clone GKCB0F02 5'
1579	15573	27014	9.85	0.0E+00	AB040905.1	NT	Homo sapiens mRNA for KIAA1472 protein, partial cds
1583	14328	27015	1.63	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1585	14931	27018	9.78	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1585	14931	27019	9.78	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1587	14933	27020	42.75	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1587	14933	27021	42.75	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1589	14935	27023	7.94	0.0E+00	M81803.1	NT	Human sodium channel mRNA
1604	14360	27039	5.65	0.0E+00	H26973.1	EST_HUMAN	yo76c05.s1 Soares adult brain N2b4HB5Y Homo sapiens cDNA clone IMAGE:183948 3'
1614	14961	27051	2	0.0E+00	AB046828.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds
1614	14961	27052	2	0.0E+00	AB046828.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1659	14405	27095	1.25	0.0E+00	BE144394.1	EST_HUMAN	MRO-HT0168-191199-004-b11 HT0168 Homo sapiens cDNA
1659	14405	27098	1.25	0.0E+00	BE144394.1	EST_HUMAN	MRO-HT0168-191199-004-b11 HT0168 Homo sapiens cDNA
1663	14409	27100	1.68	0.0E+00	AI768104.1	EST_HUMAN	wg81b07.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2371477 3' similar to TR:O62788 Q52788 GYS2/HIS2 ZINC FINGER PROTEIN.;
1664	14410	27101	1.2	0.0E+00	4758513	NT	Homo sapiens hematopoietic-derived zinc finger protein (HD-ZNF1) mRNA
1665	14411	27102	2.61	0.0E+00	AF057177.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
1669	14414	27106	1.76	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1669	14414	27107	1.76	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1671	14416	27109	1.35	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1672	14417	27110	1.5	0.0E+00	7657085	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG) mRNA
1675	14420	27113	1.12	0.0E+00	BE222374.1	EST_HUMAN	hu11d05.x1 NCJ_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3168281 3' similar to TR:O65147 O85147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE;
1675	14420	27114	1.12	0.0E+00	BE222374.1	EST_HUMAN	hu11d05.x1 NCJ_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3168281 3' similar to TR:O65147 O85147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE;
1677	14421	27116	3.24	0.0E+00	4557610	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
1680	14424	27119	3.18	0.0E+00	H30132.1	EST_HUMAN	yc59e08.r1 Soares breast 3NblBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64089 GAMMA-GLUTAMYL-TRANSEPTIDASE 5 PRECURSOR (HUMAN);
1680	14424	27120	3.18	0.0E+00	H30132.1	EST_HUMAN	yc59e08.r1 Soares breast 3NblBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64089 GAMMA-GLUTAMYL-TRANSEPTIDASE 5 PRECURSOR (HUMAN);
1682	14426	27122	1.32	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
1682	14426	27123	1.32	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
1685	14429	27123	13.71	0.0E+00	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1685	14437	27133	1.11	0.0E+00	AF169863.1	NT	Homo sapiens WNT16 protein (WNT16) mRNA, complete cds
1685	14438	27136	3.53	0.0E+00	8923841	NT	Homo sapiens FOXJ2 forkhead factor (LOC555810), mRNA
1702	14445	27145	1.11	0.0E+00	4826873	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM1A1) mRNA
1708	14451	27162	4.08	0.0E+00	AB028542.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
1710	14453	27167	2.19	0.0E+00	S84400.1	NT	TGR zeta [human, Genomic/mRNA, 365 nt, segment 1 of 8]
1725	15577	27167	1.16	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
1739	14481	27181	1.83	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
1778	15578	27228	6.86	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1782	14523	27228	3.37	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1782	14523	27229	3.37	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1784	14525	27232	1.42	0.0E+00	U63963.1	NT	Human CSF-1 receptor (FMS) gene, complete cds, and (SMF) gene, partial cds
1787	14528		1.2	0.0E+00	W76571.1	EST_HUMAN	z866g09.r1 Soares_fetal_haart_NbH119W Homo sapiens cDNA clone IMAGE:345664 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1788	15579	27238	2.74	0.0E+00	4505332	NT	Homo sapiens nuclear autoantigenic sperm protein (histone-binding) (NASP) mRNA
1800	14540	27251	5.68	0.0E+00	U14987.1	NT	Human ribosomal protein L21 mRNA, complete cds
1802	14542	27254	2.79	0.0E+00	AB002331.1	NT	Human mRNA for KIAA0333 gene, partial cds
1803	14543	27255	4.07	0.0E+00	4502284	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF-4) mRNA
1803	14543	27256	4.07	0.0E+00	4502284	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF-4) mRNA
1803	14543	27257	4.07	0.0E+00	4502284	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF-4) mRNA
1812	14562	27268	1.83	0.0E+00	4505328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
1826	14565	27276	5.82	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1826	14565	27277	5.82	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1836	14575	27287	1.12	0.0E+00	AB032878.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1836	14575	27288	1.12	0.0E+00	AB032878.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1840	14578	27290	4.35	0.0E+00	4828783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1840	14578	27291	4.35	0.0E+00	4828783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1841	14578	27292	5.47	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1841	14578	27293	5.47	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1844	14582	27286	1.46	0.0E+00	AW207280.1	EST_HUMAN	UHH-B11-efn-f-07-Q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1844	14582	27287	1.46	0.0E+00	AW207280.1	EST_HUMAN	UHH-B11-efn-f-07-Q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1844	14582	27318	3.49	0.0E+00	BE277465.1	EST_HUMAN	601179184F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5'
1868	14606	27317	3.49	0.0E+00	BE277465.1	EST_HUMAN	601179184F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5'
1868	14606	27317	0.93	0.0E+00	BE277465.1	EST_HUMAN	601179184F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5'
1887	14624	27334	2.16	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1916	14653	27362	2.16	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1916	14653	27363	2.16	0.0E+00	4506384	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1924	14661	27372	1.22	0.0E+00	AF157476.1	NT	Human transglutaminase mRNA, complete cds
1925	15682	27372	1.19	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1925	15682	27373	1.19	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1930	14666	27380	1.53	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1930	14666	27381	1.53	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1933	14668	27383	1.42	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1935	14670		4.27	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1940	14676		1.35	0.0E+00	M55632.1	NT	Human topoisomerase I pseudogene 1
1949	14684	27396	1.94	0.0E+00	4808282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1949	14684	27397	1.94	0.0E+00	4808282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1959	14685		1.15	0.0E+00	AL163252.2	NT	Homo sapiens chromosome 21 segment HS21C052
1961	14687	27410	1.09	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1961	14687	27411	1.09	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1962	14688	27412	2.49	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1962	14688	27413	2.49	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1973	14708	27427	1.36	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
1973	14708	27428	1.36	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
1979	14715	27432	1.69	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds
1979	14715	27433	1.69	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds
1981	14717	27434	1.57	0.0E+00	AW193024.1	EST_HUMAN	X68601.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2678913 3'
1981	14717	27435	1.57	0.0E+00	AW193024.1	EST_HUMAN	X68601.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2678913 3'
1982	14718	27436	5.96	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1982	14718	27437	5.98	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1984	14720	27439	2	0.0E+00	7662096	NT	Homo sapiens KIAA0408 gene product (KIAA0408), mRNA
1985	14721	27440	1.19	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1986	14722	27441	1.58	0.0E+00	Z47556.1	NT	H. sapiens genes for semenogelin I and semenogelin II
1986	14722	27442	1.58	0.0E+00	Z47556.1	NT	H. sapiens genes for semenogelin I and semenogelin II
1993	14729	27451	3.75	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
2014	14749	27478	1.02	0.0E+00	AF273941.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2014	14749	27479	1.02	0.0E+00	AF273941.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2040	14778	27507	1.64	0.0E+00	7706742	NT	Homo sapiens TP53TG3a (TP53TG3a), mRNA
2052	14785	27511	4.13	0.0E+00	AU140831.1	EST_HUMAN	AU140831 PLACE4 Homo sapiens cDNA clone PLACE4000321 5'
2053	14785	27511	1.55	0.0E+00	7705585	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2053	14785	27511	1.55	0.0E+00	7705585	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2055	14787	27513	2.04	0.0E+00	AA077589.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2055	14787	27514	2.04	0.0E+00	AA077589.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2057	14789		2.41	0.0E+00	7657463	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2058	14791		1.91	0.0E+00	4585863	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2060	14792	27517	0.97	0.0E+00	Z42399.1	EST_HUMAN	HSC01C021 normalized infant brain cDNA Homo sapiens cDNA clone c-01c02

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2082	14784		1.78	0.0E+00	AI244247.1	EST_HUMAN	q160f08.x1 NCL_CGAP_U2 Homo sapiens cDNA clone IMAGE:1988871 3' similar to contains Alu repetitive element
2087	14789	27526	3.46	0.0E+00	BE877225.1	EST_HUMAN	601485146F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887747 5'
2088	14801	27528	1.49	0.0E+00	BF316325.1	EST_HUMAN	601602604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4195320 5'
2089	14801	27528	1.48	0.0E+00	BF316325.1	EST_HUMAN	601602604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4195320 5'
2072	14804	27532	3.07	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA
2072	14804	27533	3.07	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA
2080	14812	27544	3.71	0.0E+00	LO0620.1	NT	Human plasma membrane calcium ATPase isoform 2 (AP12B2) mRNA, complete cds
2080	14812	27545	3.71	0.0E+00	LO0620.1	NT	Human plasma membrane calcium ATPase isoform 2 (AP12B2) mRNA, complete cds
2085	14817	27549	1.36	0.0E+00	4758489	NT	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
2107	14838		2.06	0.0E+00	BE767894.1	EST_HUMAN	QV1-GN0085-140800-318-c10 GN0085 Homo sapiens cDNA
2108	14839		1.59	0.0E+00	AF018993.1	NT	Homo sapiens X-linked juvenile retinoschistis protein (XLR51) gene, exon 8 and complete cds
2110	14841	27572	3.78	0.0E+00	BF027682.1	EST_HUMAN	601672066F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954795 5'
2111	14842	27573	1.03	0.0E+00	BE072624.1	EST_HUMAN	PMO-BT0547-210300-004-F04 BT0547 Homo sapiens cDNA
2113	14844	27574	1.06	0.0E+00	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2116	14847	27576	1.3	0.0E+00	AW752708.1	EST_HUMAN	IL3-CT0219-271089-022-G10 CT0219 Homo sapiens cDNA
2117	14848	27577	1.47	0.0E+00	L76827.1	NT	Homo sapiens metabotropic glutamate receptor 1 alpha (mGluR1alpha) mRNA, complete cds
2118	14850	27579	6.39	0.0E+00	AI904640.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2119	14850	27580	6.39	0.0E+00	AI904640.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2153	14883		1.05	0.0E+00	7657252	NT	Homo sapiens potassium large conductance calcium-activated channel, subfamily M, beta member 3-like (KCNMB3L), mRNA
2179	14908		1.22	0.0E+00	L14787.1	NT	Human DNA-binding protein mRNA, 3' end
2183	14912	27644	1.05	0.0E+00	BE274698.1	EST_HUMAN	601122338F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346688 5'
2185	14914	27647	7.59	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBNBDE08 5'
2185	14914	27648	7.59	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBNBDE08 5'
2187	14916	27650	1.4	0.0E+00	AA931691.1	EST_HUMAN	cc32a01.s1 NCL_CGAP_Lus Homo sapiens cDNA clone IMAGE:1567898 3'
2191	14920	27654	5.68	0.0E+00	BF344434.1	EST_HUMAN	602014829F1 NCL_CGAP_Bim64 Homo sapiens cDNA clone IMAGE:4150734 5'
2192	14921	27655	12.14	0.0E+00	BE748890.1	EST_HUMAN	601672186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
2196	14925	27659	3.55	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2196	14925	27660	3.55	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2200	15588	27665	2.04	0.0E+00	BF313617.1	EST_HUMAN	601900261F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129622 5'
2203	14931	27668	1.93	0.0E+00	BE018750.1	EST_HUMAN	b584e02.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3049082 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN ;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2204	14932	27689		1.55	AA042813.1	EST_HUMAN	z653c07.s1 Scores_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2204	14932	27670		1.56	AA042813.1	EST_HUMAN	z653c07.s1 Scores_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2212	14940	27678	3.37	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2212	14940	27679	3.37	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2213	14941	27680	2.3	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2213	14941	27681	2.3	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2218	14946			1.37	U36284.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
2236	14984	27704	6.71	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2243	14971	27708	2.03	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2250	14978	27717	1.71	0.0E+00	BE895281.1	EST_HUMAN	601433525F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918607 5'
2253	14981	27720	1.27	0.0E+00	BE905663.1	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2253	14981	27721	1.27	0.0E+00	BE905663.1	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2256	14983	27723	2.35	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
2259	15024	27759	4.02	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 8 (DEF8), mRNA
2260	15024	27760	4.02	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 8 (DEF8), mRNA
2300	15026	27761	1.87	0.0E+00	AI076404.1	EST_HUMAN	cc09c07.x1 Scores_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1674828 3'
2302	15027	27763	2.33	0.0E+00	AA428001.1	EST_HUMAN	z178a11.1 Scores_fetal_fetus_Nb2H-F8_9w Homo sapiens cDNA clone IMAGE:759740 5'
2302	15027	27764	2.33	0.0E+00	AA428001.1	EST_HUMAN	z178a11.1 Scores_fetal_fetus_Nb2H-F8_9w Homo sapiens cDNA clone IMAGE:759740 5'
2304	15028	27766	1.75	0.0E+00	BF347038.1	EST_HUMAN	602021846F1 NCI_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4157339 5'
2309	15034	27772	1.52	0.0E+00	L02840.1	NT	Homo sapiens potassium channel Kv2.1 mRNA, complete cds
2310	15035	27773	1.61	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2310	15035	27774	1.61	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2311	15036	27776	1.39	0.0E+00	63254668	NT	Homo sapiens flavin containing monooxygenase 3 (FMO3), mRNA
2317	15042	27780	1.17	0.0E+00	BE676095.1	EST_HUMAN	7122a02.x1 NCI_CGAP_GLL1 Homo sapiens cDNA clone IMAGE:3285370 3' similar to TR:094939 094939 KIAA0857 PROTEIN;
2320	15045	27782	4.73	0.0E+00	AF044571.1	NT	Homo sapiens phosphatase kinase alpha subunit (PHKA2) gene, exon 32
2321	15046	27783	1.9	0.0E+00	AI625542.1	EST_HUMAN	1567c08.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2283182 3'
2325	15050	27785	1.86	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2325	15050	27786	1.88	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2328	15053	27789	1.95	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2328	15053	27790	1.95	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2334	15058	27793	1.24	0.0E+00	7662007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2334	15058	27794	1.24	0.0E+00	7662007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA
2348	15071	27807	3.2	0.0E+00	5174878	NT	Homo sapiens signal regulatory protein, beta, 1 (SIRP-BETA-1) mRNA
2352	15074	27811	2.39	0.0E+00	AU131142.1	EST_HUMAN	AU131142 NT2RP3 Homo sapiens cDNA clone NT2RP3002084 5'
2353	15075		4.31	0.0E+00	BE784020.1	EST_HUMAN	601386843F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3941003 5'
2354	15076	27812	1.51	0.0E+00	AW867076.1	EST_HUMAN	MR1-SN0033-120400-002-004 SN0033 Homo sapiens cDNA
2355	15077	27813	2.88	0.0E+00	7662017	NT	Homo sapiens KIAA0244 protein (KIAA0244), mRNA
2356	15078	27814	2.03	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2356	15078	27815	2.03	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2357	15079					NT	Homo sapiens cytochrome P-450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P-450 polypeptide 4 (CYP3A4) and cytochrome P-450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P-450 polypeptide 5 (CYP3A5) gene, partial cds
2358	15081	27817	7.98	0.0E+00	AF280107.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2359	15081	27818	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2359	15081	27819	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2360	15082	27820	0.98	0.0E+00	8823089	NT	Homo sapiens hypothetical protein FLJ20081 (FLJ20081), mRNA
2377	15089		0.81	0.0E+00	BE814424.1	EST_HUMAN	MRO-BN0070-080600-028-012 BN0070 Homo sapiens cDNA
2415	15136	27872	1.06	0.0E+00	AU119582.1	EST_HUMAN	AU119582 HEMBA1 Homo sapiens cDNA clone HEMBA1008155 5'
2416	15137		3.74	0.0E+00	A042035.1	EST_HUMAN	α60b02-x1 Scara3, NIHMPu_S1 Homo sapiens cDNA clone IMAGE:1660883 3' similar to TR-O08682
2417	15138	27873	0.98	0.0E+00	8823820	NT	Homo sapiens hypothetical protein FLJ20683 (FLJ20683), mRNA
2420	15141		4.44	0.0E+00	BE896605.1	EST_HUMAN	601432608F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918168 5'
2424	15145	27878	1	0.0E+00	BE837632.1	EST_HUMAN	MR1-TN0021-280800-001-H06 TN0021 Homo sapiens cDNA
2433	15154		0.98	0.0E+00	AB006622.1	EST_HUMAN	AB006622 HeLa cDNA (T.Noma) Homo sapiens cDNA similar to adenylylase kinase isozyme 2
2437	15157	27882	4.5	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
2441	15160	27896	2.09	0.0E+00	D85608.1	NT	Homo sapiens gene for cholecystikinin type-A receptor, complete cds
2441	15160	27897	2.09	0.0E+00	D85608.1	NT	Homo sapiens gene for cholecystikinin type-A receptor, complete cds
2449	15168	27908	1.91	0.0E+00	AF106276.1	NT	Homo sapiens immunoglobulin-like transcript 4 (ILT4) gene, exon 8
2454	15172	27811	1.22	0.0E+00	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4158670 5'
2461	15179	27819	4.45	0.0E+00	5728777	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
2465	15183	27822	1.24	0.0E+00	BE831003.1	EST_HUMAN	CMD-MT0033-150800-428-H11 MT0033 Homo sapiens cDNA
2465	15183	27823	1.24	0.0E+00	BE831003.1	EST_HUMAN	CMD-MT0033-150800-428-H11 MT0033 Homo sapiens cDNA
2470	15188	27827	0.93	0.0E+00	U13688.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2470	15188	27828	0.93	0.0E+00	U13688.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2471	15189	27828	2.98	0.0E+00	BF568144.1	EST_HUMAN	602184568T1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300383 3'

Single Exon Probes Expressed in Brain

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2618	15328	28072	2.08	0.0E+00	AJ571737.1	EST_HUMAN	In18008.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2168055 3' similar to gbl.20977 CALCIUM-TRANSPORTING ATPASE PLASMA MEMBRANE, BRAIN ISOFORM 2 (HUMAN); Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28kd (TAF2i) mRNA
2619	15330	28073	2.19	0.0E+00	5032150	NT	Homo sapiens mRNA for KIAA1438 protein, partial cds
2621	15333	28077	4.95	0.0E+00	AB037859.1	NT	601580108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2622	15334	28078	1.02	0.0E+00	BE795445.1	EST_HUMAN	601580108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2622	15334	28079	1.02	0.0E+00	BE795445.1	EST_HUMAN	601143722F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051388 5'
2625	15337	28080	2.65	0.0E+00	BE263328.1	EST_HUMAN	601143722F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3939222 5'
2632	15344		4.92	0.0E+00	BE782472.1	EST_HUMAN	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA
2641	15352	28088	1.51	0.0E+00	4504088	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2651	15361		1.27	0.0E+00	U78027.1	NT	Homo sapiens guanylate cyclase-activating protein 2 (GUCA1B) gene, exon 1
2652	15362	28103	6.55	0.0E+00	AF173227.1	NT	AU133385 NT2RP4 Homo sapiens cDNA clone NT2RP4001964 5'
2658	15368	28106	1.22	0.0E+00	AU133385.1	EST_HUMAN	Human bulbus peniphigoid antigen (BPAG1) mRNA, complete cds
2659	15369	28107	1.08	0.0E+00	M89225.1	NT	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2661	15371	28109	2.22	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2661	15371	28110	2.22	0.0E+00	AU130403.1	EST_HUMAN	RG1-OT0086-220300-011-007 OT0086 Homo sapiens cDNA
2663	15373	28112	1.71	0.0E+00	AW887015.1	EST_HUMAN	7m15h05.x1 NCI_CGAP_Cot16 Homo sapiens cDNA clone IMAGE:3316089 3'
2668	15378	28115	1.25	0.0E+00	BF000018.1	EST_HUMAN	601298714F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628923 5'
2667	15377	28116	4.37	0.0E+00	BE383165.1	EST_HUMAN	601278373F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610267 5'
2668	15378		2.57	0.0E+00	BE531283.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
2725	15432		4.21	0.0E+00	AA318723.1	EST_HUMAN	601686825F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943591 5'
2726	15433	28168	5.57	0.0E+00	BE794894.1	EST_HUMAN	Human beta-prime-adaptin (BAM22) gene, exon 5
2732	15439	28177	3.83	0.0E+00	U36253.1	NT	Homo sapiens neurergulin 1 (NRG1),transcript variant SMDF, mRNA
2733	15440	28178	1.33	0.0E+00	7869517	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
2734	15441	28178	1.78	0.0E+00	AF110783.1	NT	Homo sapiens skeletal muscle LIM-protein like 1, complete cds
2736	15443	28181	1.27	0.0E+00	AB051826.1	NT	Homo sapiens NC28K mRNA for GTP-binding protein like 1, complete cds
2742	15448	28187	7.77	0.0E+00	BE798376.1	EST_HUMAN	601681961F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945983 5'
2745	15604	28191	3.48	0.0E+00	BE583433.1	EST_HUMAN	601335485F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688564 5'
2746	15451		1.16	0.0E+00	AV721647.1	EST_HUMAN	AV721647 HTB Homo sapiens cDNA clone HTBBYE08 5'
2748	15453	28194	2.25	0.0E+00	5174488	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2748	15463	28195	2.25	0.0E+00	5174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2749	15454	28196	1.21	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2749	15454	28197	1.21	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
2750	15455	28198	2.5	0.0E+00	AF280195.1	NT	Homo sapiens hypertension-related calcium-regulated gene mRNA, complete cds
2751	15456		13.89	0.0E+00	AV651068.1	EST_HUMAN	AV651068 GLG Homo sapiens cDNA clone GLGCLD07 3'
2752	15457	28199	3.13	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250800-439-b08 TN0141 Homo sapiens cDNA
2752	15457	28200	3.13	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250800-439-b08 TN0141 Homo sapiens cDNA
2756	15461	28203	33.8	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2756	15461	28204	33.8	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2760	15465	28209	2.58	0.0E+00	BE747183.1	EST_HUMAN	601580903F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928472 5'
2771	15476		1.15	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21G001
2772	15477	28218	3.36	0.0E+00	BF614110.1	EST_HUMAN	UHH-BW1-arm-e-07-0-UJ.1 NCI CGAP Sub7 Homo sapiens cDNA clone IMAGE:3071340 3'
2778	15483		0.89	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2784	15489	28227	2.1	0.0E+00	7705275	NT	Homo sapiens angiotensin-3 (ANG-3), mRNA
2784	15489	28228	2.1	0.0E+00	7705275	NT	Homo sapiens angiotensin-3 (ANG-3), mRNA
2785	15490	28229	4.67	0.0E+00	BF877694.1	EST_HUMAN	602085578F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249916 5'
2781	15496	28237	1.75	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
2784	15498	28239	13.66	0.0E+00	AV726534.1	EST_HUMAN	AV726534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2784	15498	28240	13.56	0.0E+00	AV726534.1	EST_HUMAN	AV726534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2786	15501		7.61	0.0E+00	AJ879163.1	EST_HUMAN	au55cd04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518803 5' similar to SW:R13A_HUMAN P40428 60S RIBOSOMAL PROTEIN L13A ;
2789	15504	28245	5.41	0.0E+00	BF630691.1	EST_HUMAN	602071957F1 NCI CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4214679 5'
2800	15505	28246	5.55	0.0E+00	BE872768.1	EST_HUMAN	601450912F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3854642 5'
2802	15507	28247	1.6	0.0E+00	AU131494.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'
2802	15507	28248	1.6	0.0E+00	AU131494.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'
2803	15508	28249	20.25	0.0E+00	BE300344.1	EST_HUMAN	600844784F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960808 5'
2803	15508	28250	20.25	0.0E+00	BE300344.1	EST_HUMAN	600844784F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960808 5'
2809	12995	25634	4.22	0.0E+00	S76830.1	NT	glycoprotein D=Duffy group antigen [human, blood, Genomic DNA, 3068 nt]
2812	15515		4.35	0.0E+00	AB033281.1	NT	Homo sapiens BTRCP2 mRNA for F-box and WD-repeats protein isoform C, complete cds
2818	13491	26144	8.39	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2818	13491	26145	8.39	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2822	13776	26436	3.52	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2822	13776	26437	3.52	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2840	15608	28258	3.52	0.0E+00	X85980.1	NT	H. sapiens serine hydroxymethyltransferase pseudogene

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2841	15609		1.34	0.0E+00	AF068624.1	NT	Homo sapiens 6-aminocaproate synthase 2 (ALAS2) gene, complete cds
2843	15611		1.22	0.0E+00	AB040980.1	NT	Homo sapiens mRNA for KIAA1527 protein, partial cds
2849	15617	28283	2.61	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2852	15620	28285	2.63	0.0E+00	M81803.1	NT	Homo sapiens sodium channel mRNA
2854	15622	28287	1.94	0.0E+00	M80802.1	NT	Human AHNK nucleoprotein mRNA, 5' end
2857	15625	28289	1.29	0.0E+00	BE154504.1	EST_HUMAN	PMO-HT0343-281289-003-e02 HT0343 Homo sapiens cDNA
2857	15625	28270	1.29	0.0E+00	BE154504.1	EST_HUMAN	PMO-HT0343-281289-003-e02 HT0343 Homo sapiens cDNA
2859	15627		1.18	0.0E+00	X73428.1	NT	H. sapiens k8 gene for HLH type transcription factor
2860	15628		2.59	0.0E+00	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C068
2861	15629	28272	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2861	15629	28273	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2861	15629	28274	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2866	15633	28277	18.48	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2866	15633	28278	18.48	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2869	15636	28281	1.69	0.0E+00	AL090857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
2870	15637		7.2	0.0E+00	Y10658.1	NT	H. sapiens mRNA for nuclear DNA helicase II
2871	15638		1.42	0.0E+00	AF152303.1	NT	Homo sapiens protocadherin alpha C1 (PCDH-alpha-C1) mRNA, complete cds
2872	15639	28282	47.87	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2882	15649	28283	47.87	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2882	15649	28282	2.35	0.0E+00	4507280	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2885	15652	28286	1.06	0.0E+00	AL047596.1	EST_HUMAN	DKFZp586G0821_r1 586 (synonym: huter1) Homo sapiens cDNA clone DKFZp586G0821
2886	15653	28287	0.97	0.0E+00	7661883	NT	Homo sapiens KIAA0054 gene product, Helicase (KIAA0054), mRNA
2886	15653	28288	0.97	0.0E+00	7661883	NT	Homo sapiens KIAA0054 gene product, Helicase (KIAA0054), mRNA
2887	15654		2.98	0.0E+00	4503098	NT	Homo sapiens KIAA0054 gene product, Helicase (KIAA0054), mRNA
2890	15657	28300	5.48	0.0E+00	BE081808.1	EST_HUMAN	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2890	15657	28301	5.48	0.0E+00	BE081808.1	EST_HUMAN	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA
2897	15664	28312	2.09	0.0E+00	AL163208.2	NT	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA
2897	15664	28313	2.09	0.0E+00	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
2895	15671		4.18	0.0E+00	Y18210.1	NT	Homo sapiens h1b5 gene for hair keratin, exons 1 to 9
2907	15673	28321	1.33	0.0E+00	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
2908	15674	28322	20.94	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2909	15675	28323	1.91	0.0E+00	AI661002.1	EST_HUMAN	tn18d07.x1 NC1_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247
							O16247 F44E7.2 PROTEIN.;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2809	15675	28324	1.91	0.0E+00	AI561002.1	EST_HUMAN	trn1807.x1 NCL CGAP Brn25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O18247
2811	15677	28326	1.63	0.0E+00	P62740	SWISSPROT	O18247 F44E7 2 PROTEIN ;
2812	15678	28327	2.01	0.0E+00	AF152338.1	NT	ZINC FINGER PROTEIN 132
2828	15684	28339	1.92	0.0E+00	AB033033.1	NT	Homo sapiens protocadherin gamma C4 (PCDH-gamma-C4) mRNA, complete cds
2828	15684	28340	1.92	0.0E+00	AB033033.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
2829	15685	28341	4.56	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
2829	15685	28342	4.56	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2832	15688	28345	3.58	0.0E+00	7661903	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2832	15688	28346	3.58	0.0E+00	7661903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2833	15689	28347	3.21	0.0E+00	5174574	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2833	15689	28348	3.21	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
2838	15703	28352	1.16	0.0E+00	BF110702.1	EST_HUMAN	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
2838	15703	28353	1.16	0.0E+00	BF110702.1	EST_HUMAN	7n40d03.x1 NCL CGAP Lu24 Homo sapiens cDNA clone IMAGE:3567028 3' similar to TR:Q8VLN1
2846	15712	28364	2.15	0.0E+00	4505084	NT	Q8VLN1 CG17283 PROTEIN ;
2846	15712	28365	2.15	0.0E+00	4505084	NT	7n40d03.x1 NCL CGAP Lu24 Homo sapiens cDNA clone IMAGE:3567028 3' similar to TR:Q8VLN1
2853	15719	28370	1.69	0.0E+00	4758827	NT	Q8VLN1 CG17283 PROTEIN ;
2854	15720		0.98	0.0E+00	X08494.1	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2857	15723	28373	2.38	0.0E+00	AB033034.1	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2858	15724	28374	5.56	0.0E+00	X15308.1	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2858	15724	28375	6.56	0.0E+00	X15309.1	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2859	15726	28378	7.64	0.0E+00	AF106275.1	NT	Homo sapiens neuradin III (NRXN3) mRNA
2873	15739		1.13	0.0E+00	AI148880.1	EST_HUMAN	H. sapiens mRNA for M phase phosphoprotein 10
2880	15746	28394	1.12	0.0E+00	4508118	NT	H. sapiens mRNA for KIAA1208 protein, partial cds
2881	15747	28395	2.85	0.0E+00	AB004884.1	NT	H. sapiens NF-H gene, exon 4
2891	15757	28404	1.52	0.0E+00	7662273	NT	H. sapiens NF-H gene, exon 4
2893	15759	28406	3.75	0.0E+00	5729755	NT	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2893	15759	28407	3.75	0.0E+00	5729755	NT	qf43f09.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1762809 3'
2897	15763	28412	1.1	0.0E+00	AB037852.1	NT	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA
3025	15791	28439	1.17	0.0E+00	M74099.1	NT	Homo sapiens mRNA for PKU-alpha, partial cds
							Homo sapiens KIAA0737 gene product (KIAA0737), mRNA
							Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
							Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
							Homo sapiens mRNA for KIAA1431 protein, partial cds
							Human displacement protein (CCAT) mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3033	15798	28445	0.71	0.0E+00	4506882	NT	Homo sapiens semenogelin I (SEMG1) mRNA
3038	15805		4.82	0.0E+00	AF185853.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
3042	15808	28454	3.74	0.0E+00	5579468	NT	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA
3042	15808	28455	3.74	0.0E+00	5579469	NT	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA
3044	15810		6.88	0.0E+00	AL359403.1	NT	isoform 2 of a novel human mRNA from chromosome 22
3049	15815	28460	1.6	0.0E+00	AF017433.1	NT	Homo sapiens putative transcription factor CR33 (CR33) mRNA, partial cds
							Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes,
3052	15818		1.98	0.0E+00	AF186779.1	NT	complete cds; and L-type calcium channel α
3066	15832	28475	1.19	0.0E+00	AF170492.1	NT	Homo sapiens chloride channel CLCA4 (CLCA) mRNA, complete cds
3074	15840	28483	2.8	0.0E+00	X03528.1	NT	Human germline gene 18.1 for Ig lambda L-chain C region (IgL-C18.1)
3080	15845		1.64	0.0E+00	AF186355.1	NT	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds
3084	15849	28490	1.72	0.0E+00	AF084589.1	NT	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cds
3104	15868	28509	3.2	0.0E+00	AF285208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3105	15870	28510	7.83	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
3110	15875	28514	3.42	0.0E+00	7862139	NT	Homo sapiens KIAA0469 gene product (KIAA0469), mRNA
3111	15876	28515	1.21	0.0E+00	AF042075.1	NT	Homo sapiens olfactory receptor-like protein (OLFR 42B) gene, OLFR 42B-8110 allele, partial cds
							Homo sapiens olfactory receptor-like protein (OLFR 42B) gene, OLFR 42B-8110 allele, partial cds
3138	15902	28547	3.74	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNCB1) mRNA
3148	15911	28556	26.91	0.0E+00	L20841.1	NT	Human ferritin heavy chain mRNA, complete cds
3151	15914	28559	1.32	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3161	15914	28560	1.32	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
							yes2f03.s1 Stratiogene lung (#937210) Homo sapiens cDNA clone IMAGE:119463 3' similar to SP:S28639
3158	15921	28567	8.63	0.0E+00	T94870.1	EST_HUMAN	S29539 BASIC PROTEIN, 23K -
3172	15935	28594	0.88	0.0E+00	BF243336.1	EST_HUMAN	601878507F1 NIH_MGC 55 Homo sapiens cDNA clone IMAGE:4107493 5'
3178	15941	28591	4.39	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
3178	15941	28592	4.39	0.0E+00	X88922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
3178	15941	28592	4.39	0.0E+00	X88922.1	NT	Homo sapiens neurodin III (NRXN3) mRNA
3187	15950	28601	1.31	0.0E+00	4759827	NT	Homo sapiens neurodin III (NRXN3) mRNA
3187	15950	28602	1.31	0.0E+00	4759827	NT	Homo sapiens interleukin 1 receptor, type I (IL1R1) mRNA
3195	15958	28610	8.46	0.0E+00	4504658	NT	Homo sapiens nuclear phosphoprotein B23 (NPM1) mRNA, complete cds
3211	15974	28626	3.25	0.0E+00	M28699.1	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
							Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3214	15977	28628	1.96	0.0E+00	4502098	NT	
3220	15983	28636	0.85	0.0E+00	4758055	NT	

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3220	15983	28637	0.85	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3222	15985	28638	3.07	0.0E+00	AA774783.1	EST_HUMAN	aa87b11.s1 Strabagene schizo brain S11 Homo sapiens cDNA clone IMAGE:971133 3'
3230	15993	28646	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3230	15993	28647	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3242	16004	28653	1.36	0.0E+00	4557590	NT	Homo sapiens fibrillin 1 (Marfan syndrome) (FBN1) mRNA
3248	16010	28661	1	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
3255	16017		5.8	0.0E+00	M65189.1	NT	Human connectin 43 processed pseudogene
3256	16018	28668	1.26	0.0E+00	AF019413.1	NT	Homo sapiens HLA class III region containing tanascin X (tanascin-X) gene, partial cds; cytochrome P450 21-hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SK2W), RD, complement factor B (Bf), and complement component C2 (C2) genes, >
3258	16020	28670	3.96	0.0E+00	AF065084.1	NT	Homo sapiens very large G-protein coupled receptor-1 (VLGR1) mRNA, complete cds
3261	16023	28672	1.11	0.0E+00	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3261	16023	28673	1.11	0.0E+00	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3269	17876	28680	2.09	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3269	17875	28681	2.09	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3285	16046	28695	2.25	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3286	16047	28696	1.27	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
3297	16059	28708	1.22	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
3300	16062	28710	1.08	0.0E+00	AA994842.1	EST_HUMAN	Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA
3309	16069	28718	1.18	0.0E+00	4885312	NT	tr5908.s2 NCL CGAP_Pan1 Homo sapiens cDNA clone IMAGE:222835 3' similar to SW-RL11_RAT
3318	16078	28728	1.89	0.0E+00	AI589294.1	EST_HUMAN	p25121 60S RIBOSOMAL PROTEIN L11, contains Abu repetitive element
3326	16086	28736	2.33	0.0E+00	AF128683.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
3326	16086	28737	2.33	0.0E+00	AF128683.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-8
3327	16087	28738	1.22	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3327	16087	28739	1.22	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3329	16089	28741	1.27	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3329	16089	28742	1.27	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3333	16093	28745	9.77	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
3335	16095	28747	1.29	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
3342	16101	28753	0.84	0.0E+00	BE779039.1	EST_HUMAN	601494955F1 NIH_MGC 67 Homo sapiens cDNA clone IMAGE:3888246 5'
3352	16112	28767	0.72	0.0E+00	AI632559.1	EST_HUMAN	WB1004.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2305279 3' similar to TR-Q91929 Q91929
3391	16150	28804	4.44	0.0E+00	AU123664.1	EST_HUMAN	ZINC FINGER PROTEIN ;
							AU123664 NT2RM2 Homo sapiens cDNA clone NT2RM200795 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3398	16156	28807	0.95	0.0E+00	7363436	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10G1), mRNA
3398	16156	28808	0.95	0.0E+00	7363436	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10G1), mRNA
3401	16156	28810	1.36	0.0E+00	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51584), mRNA
3402	16160	28811	1.42	0.0E+00	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-L isoform (CACNA1L) mRNA, complete cds
3408	16164		0.99	0.0E+00	AW887015.1	EST_HUMAN	MR1-SN0033-100400-001-c08 SN0033 Homo sapiens cDNA
3418	16175	28824	1.66	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3418	16175	28825	1.66	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3419	16178	28828	1.34	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA
3421	16178	28827	5.37	0.0E+00	5903067	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2 (LILRA2), mRNA
3430	15441	28179	1.75	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
3435	16191	28840	2.4	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
3438	16194	28844	5.47	0.0E+00	K02380.1	NT	Bacteriophage P1 replication region including repA, parA, and parB genes and IncA, IncB, and IncC
3440	16198	28846	1.5	0.0E+00	7427522	NT	Incompatibility determinants
3448	16204	28853	3.54	0.0E+00	A835159.1	EST_HUMAN	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPR-T), mRNA
3448	16204	28854	3.54	0.0E+00	A835159.1	EST_HUMAN	NEURAL CELL ADHESION MOLECULE ;
3452	16208	28859	2.48	0.0E+00	AJ278120.1	NT	wp14d10.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE2464819 3' similar to TR:O73634 O73634
3459	16215	28868	1.82	0.0E+00	6552332	NT	NEURAL CELL ADHESION MOLECULE ;
3459	16215	28869	1.82	0.0E+00	6552332	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3464	16220	28874	1.31	0.0E+00	M14123.1	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3470	16228	28880	5.4	0.0E+00	U43293.1	NT	Human endogenous retrovirus HERV-K10
3475	16231	28884	1.18	0.0E+00	9568718	NT	Human MDS1A (AML1MDS1 fusion) mRNA, partial cds
3475	16231	28885	1.18	0.0E+00	9568718	NT	Homo sapiens hypothetical protein (AF038169), mRNA
3478	16235	28890	1.84	0.0E+00	AF045452.1	NT	Homo sapiens hypothetical protein (AF038169), mRNA
3479	16235	28891	1.84	0.0E+00	AF045452.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3484	16241	28898	1.12	0.0E+00	AF231922.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3486	16252	28905	2.21	0.0E+00	BE304791.1	EST_HUMAN	Homo sapiens chromosome 21 unknown mRNA
3488	16252	28908	2.21	0.0E+00	BE304791.1	EST_HUMAN	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3499	16255	28909	0.82	0.0E+00	4828795	NT	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
							Homo sapiens potassium voltage-gated channel, Isk-related family, member 2 (KCNE2) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3504	16280	28914	0.89	0.0E+00	A1984007.1	EST_HUMAN	1635512.x1 Scores_NHIMPu_S1 Homo sapiens cDNA clone IMAGE:2088742 3' similar to TR:000498
3507	16283	28917	1.11	0.0E+00	M10076.1	NT	000498 MYASTHENIA GRAVIS AUTOANTIGEN GRAVIN;
3529	16285	28940	1.29	0.0E+00	AV701869.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
3530	16286	28941	0.85	0.0E+00	4506884	NT	AV701869 ADB Homo sapiens cDNA clone ADBDAH08 5'
3531	16287		1.74	0.0E+00	AF078868.1	NT	Homo sapiens semaphorin II (SEM32) mRNA
3539	16286	28945	1.49	0.0E+00	AL133204.1	NT	Homo sapiens homologous yeast 44.2 protein mRNA, complete cds
3542	16287	28948	1.21	0.0E+00	AB040809.1	NT	Novel human gene mapping to chromosome X
3561	16316	28963	1.37	0.0E+00	6997248	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3561	16316	28964	1.37	0.0E+00	6997248	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
							Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3582	16317		0.69	0.0E+00	AI081907.1	EST_HUMAN	cc77c11.x1 Scores_NHIMPu_S1 Homo sapiens cDNA clone IMAGE:1662356 3' similar to WP:T1984.4
3584	16319	28967	1.04	0.0E+00	6326463	NT	CE13742;
3589	16324		4.17	0.0E+00	AW852217.1	EST_HUMAN	Homo sapiens butyrophilin, subfamily 3, member A3 (BTN3A3), mRNA
3576	16331		0.78	0.0E+00	AF118846.1	NT	QV0-CT0225-230300-169-a01 CT0225 Homo sapiens cDNA
3577	16332	28978	6.46	0.0E+00	BF676393.1	EST_HUMAN	Homo sapiens gamma-glutamylcysteine synthetase (GLCLC) gene, partial cds
3589	16343	28988	0.9	0.0E+00	AW937877.1	EST_HUMAN	602094583F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248598 5'
3603	16356	28996	0.74	0.0E+00	BF972054.1	EST_HUMAN	QV0-DT0047-170200-123-g01 DT0047 Homo sapiens cDNA
3603	16356	28997	0.74	0.0E+00	BF972054.1	EST_HUMAN	602152486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4283645 5'
3604	16357		0.85	0.0E+00	4826987	NT	602152486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4283645 5'
3606	16359	28999	1.08	0.0E+00	AW684693.1	EST_HUMAN	Homo sapiens retinoblastoma-binding protein 2 (RBBP2) mRNA
3608	16359	29000	1.08	0.0E+00	AW684693.1	EST_HUMAN	h184g01.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979024 3'
3609	16362	29004	1.42	0.0E+00	4826783	NT	h184g01.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979024 3'
3611	16364	29007	0.93	0.0E+00	7662319	NT	Homo sapiens heparan sulfatase (glucosaminase) 3-O-sulfotransferase 1 (HS3ST1) mRNA
3621	16374	29015	0.82	0.0E+00	4557752	NT	Homo sapiens KIAA0808 gene product (KIAA0808), mRNA
3621	16374	29016	0.82	0.0E+00	4557752	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
3636	16391	29030	2.67	0.0E+00	D87327.1	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
3642	16395		33.2	0.0E+00	7669491	NT	Homo sapiens mRNA for G protein-coupled inward rectifier potassium channel, complete cds
3658	16411	29049	2.6	0.0E+00	AB028642.1	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
3660	16413	29051	3.38	0.0E+00	AF124250.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
3660	16413	29052	3.38	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nisp2 mRNA, complete cds
3668	16421	29061	1.85	0.0E+00	AL163204.2	NT	Homo sapiens SH2-containing protein Nisp2 mRNA, complete cds
3668	16421	29062	1.85	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3671	16424	29065	1.62	0.0E+00	AW851714.1	EST_HUMAN	MR2-CT0222-281099-005-a05 CT0222 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3673	16426	29067	1.53	0.0E+00	5729028	NT	Homo sapiens matrix metalloproteinase 24 (membrane-inserted) (MMP24), mRNA
3675	16428	29069	1.81	0.0E+00	AB018338.1	NT	Homo sapiens mRNA for KIAA0798 protein, partial cds
3677	16430	29071	1.1	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3677	16430	29072	1.1	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3679	16432	29074	22.21	0.0E+00	7662237	NT	Homo sapiens KIAA0670 protein/ectinus (KIAA0670), mRNA
3679	16432	29075	22.21	0.0E+00	7662237	NT	Homo sapiens KIAA0670 protein/ectinus (KIAA0670), mRNA
3682	16445	29084	4.35	0.0E+00	AW298134.1	EST_HUMAN	U1H-BW0-eps-e-12-0-U1.s1 NCL CGAP_Sub8 Homo sapiens cDNA clone IMAGE:2733022 3'
3692	16445	29085	4.35	0.0E+00	AW298134.1	EST_HUMAN	U1H-BW0-eps-e-12-0-U1.s1 NCL CGAP_Sub8 Homo sapiens cDNA clone IMAGE:2733022 3'
3714	16467	29105	1.08	0.0E+00	AA463659.1	EST_HUMAN	ss06g01.1 Soares NIH-MP_u_S1 Homo sapiens cDNA clone IMAGE:812498 5' similar to SW:KRB4_SHEEP P02445 KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIIB4. [1];
3718	16471	29109	1.14	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
3721	16474	29111	3.31	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3730	16482	29120	0.82	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3742	16495	29130	4.9	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3745	16498	29133	4.29	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
3751	16503	29138	1.08	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3751	16503	29139	1.08	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3800	16552	29185	0.71	0.0E+00	AF195658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
3802	16554	29187	2.88	0.0E+00	AF179733.1	NT	Pan troglodytes olfactory receptor (FTR208) gene, partial cds
3804	16556	29188	2.3	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3804	16556	29188	2.3	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3808	16560	29183	1.24	0.0E+00	4758011	NT	Homo sapiens RAB9, member RAS oncogene family (RAB9) mRNA
3809	16561	29184	1.01	0.0E+00	10181139	NT	Homo sapiens junctional protein 1 (Jp1-pending), mRNA
3812	16584	29197	1.01	0.0E+00	A1377689.1	EST_HUMAN	Mus musculus junctional protein 1 (Jp1-pending), mRNA
3813	16565	29196	1.97	0.0E+00	AF152496.1	NT	test2f10.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2091307 3'
3814	16566	29196	1.14	0.0E+00	4758189	NT	Homo sapiens protocadherin beta 3 (PCDH-beta3) mRNA, complete cds
3818	16570	29202	10.39	0.0E+00	S78685.1	NT	Homo sapiens desmoplakin (DPI, DPI1) (DSP) mRNA
3819	16571	29203	2.22	0.0E+00	7710148	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ8/BIR1) gene, complete cds
3820	16572	29204	6.03	0.0E+00	7662183	NT	Homo sapiens methyl CpG binding protein 2 (MECP2), mRNA
3824	16576	29207	1.23	0.0E+00	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3824	16576	29208	1.23	0.0E+00	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3829	16580	29213	0.97	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds
3829	16580	29214	0.97	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3831	16582	28216	1.12	0.0E+00	6812735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
3835	16586	28222	8.16	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA
3836	16588	28223	6.16	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA
3837	16588	28228	4.04	0.0E+00	U09412.1	NT	Human zinc finger protein ZNF134 mRNA, complete cds
3838	16588	28227	0.69	0.0E+00	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
3841	16592	28229	2.98	0.0E+00	4828783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3844	16595	28232	1.05	0.0E+00	AF012815.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 11
3845	16598	28233	1.43	0.0E+00	4759171	NT	Homo sapiens SC35-Interacting protein 1 (SRRP128), mRNA
3847	16598	28235	0.74	0.0E+00	AF099117.1	NT	Homo sapiens amphiphysin gene, partial cds
3856	16606	28244	2.16	0.0E+00	AB84727.1	EST_HUMAN	W01101.X1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2411065 3' similar to TR:O43340
3859	16609	28248	4.24	0.0E+00	4506742	NT	O43340 R28830_2; contains element PTR7 repetitive element;
3862	16612	28251	1.35	0.0E+00	AL040338.1	EST_HUMAN	Homo sapiens ribosomal protein S8 (RPS8), mRNA
3867	16617	28256	1.28	0.0E+00	6005887	NT	DKFZp43-ND413_1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp43-ND413 5'
3867	16617	28257	1.28	0.0E+00	6005887	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3869	16619	28259	3.22	0.0E+00	4504138	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3871	16621		1.82	0.0E+00	4505078	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3) mRNA
3875	16625	28263	1.18	0.0E+00	AF149412.1	NT	Homo sapiens melanoma antigen, family B, 1 (MAGEB1) mRNA
3884	16634	28273	1.2	0.0E+00	4506758	NT	Homo sapiens HBP17 heparin-binding and FGF-binding protein gene, complete cds
3888	16638	28277	1.47	0.0E+00	4595642	NT	Homo sapiens tyramine receptor 3 (RYR3) mRNA
3896	16646	28286	1.18	0.0E+00	BF355295.1	EST_HUMAN	Homo sapiens zinc finger protein (KIAA0412) mRNA
3898	16648	28288	1.05	0.0E+00	AW888221.1	EST_HUMAN	RC3-HT0880-170800-011-012 HT0880 Homo sapiens cDNA
3898	16648	28289	1.05	0.0E+00	AW888221.1	EST_HUMAN	MDRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1898728 similar to MXRA5
3904	16654	28295	1.82	0.0E+00	AF126533.1	NT	Matrix remodelling associated gene 5
3907	16657	28298	1	0.0E+00	AW451306.1	EST_HUMAN	MDRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1898728 similar to MXRA5
3912	16662	28303	2.81	0.0E+00	BE378602.1	EST_HUMAN	Matrix remodelling associated gene 5
3920	16670	28311	0.92	0.0E+00	AW580740.1	EST_HUMAN	Homo sapiens F-box protein Fbx3b (FBL3B) mRNA, partial cds
3922	16672	28312	2.49	0.0E+00	5360215	NT	U-H-B13-ali-8-Q-U1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736949 3'
3923	16673	28313	0.98	0.0E+00	BE264998.1	EST_HUMAN	601236868F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608800 5'
3923	16673	28314	0.98	0.0E+00	BE264998.1	EST_HUMAN	PM3-LT0031-100100-003-009 LT0031 Homo sapiens cDNA
3952	16702	28339	1.42	0.0E+00	U106991.1	NT	Homo sapiens thionate 2-sulfatase (Huntler syndrome) (IDS), transcript variant 1, mRNA
							601193827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'
							601193827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'
							Human G2 protein mRNA, partial cds

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3952	16702	28340	1.42	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
3952	16702	28341	1.42	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
3957	16708	28344	4.69	0.0E+00	AF116185.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
3957	16708	28345	4.69	0.0E+00	AF116185.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
3968	16715		4.39	0.0E+00	M23910.1	NT	Human MHC class II lymphocyte antigen DPw4-beta-2 pseudogene, exon 2
3968	16717		5.74	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
3975	16724	28359	1.35	0.0E+00	AL118494.1	NT	Novel human gene mapping to chromosome 20
3979	16727	28361	3.22	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
3987	16735	28369	1.71	0.0E+00	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
3989	16747		27.98	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4003	16750		1.15	0.0E+00	AI657076.1	EST_HUMAN	Homo sapiens NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2244734 3' similar to TR:060308 060308
4005	16761	28382	2.97	0.0E+00	7682183	NT	KIAA0563 PROTEIN :
4008	16762	28383	2.65	0.0E+00	U06366.1	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4013	16769	28387	0.95	0.0E+00	AW339480.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF133
4024	16769	29401	6.33	0.0E+00	AB015610.1	NT	xx291e10.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871594 3'
4033	16776		3.72	0.0E+00	AL238617.1	NT	Chlorococcus aestivus mRNA for ribosomal protein S4X, complete cds
4045	16790	29418	1.32	0.0E+00	AB002314.2	NT	Homo sapiens mRNA for UGA suppressor tRNA-associated antigenic protein (tRNA48 gene)
4046	16791	29419	1.04	0.0E+00	AL163203.2	NT	Homo sapiens mRNA for KIAA0316 protein, partial cds
4047	16792	29420	1.18	0.0E+00	AF036943.1	NT	Homo sapiens chromosome 21 segment HS21C003
4048	16793	29421	2.65	0.0E+00	AL277276.1	NT	Homo sapiens myelin transcription factor 1-like (MYT1-L) mRNA, complete cds
4048	16793	29422	2.65	0.0E+00	5032028	NT	Homo sapiens mRNA for rape-2 (rapa gene)
4054	16789	29429	6.29	0.0E+00	5032028	NT	Homo sapiens mRNA for rape-2 (rapa gene)
4054	16789	29430	6.29	0.0E+00	4885306	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4069	16813	29442	4.7	0.0E+00	AB006625.1	NT	Homo sapiens G protein-coupled receptor 21 (GPR21), mRNA
4070	16814	29443	5.98	0.0E+00	4758907	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4073	16817	29444	1.11	0.0E+00	11419297	NT	Homo sapiens res GTPase activating protein-like (NGAP) mRNA
4074	16818	29445	5.87	0.0E+00	AL096857.1	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1), mRNA
4075	16819	29446	1.94	0.0E+00	AF165527.1	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1, which has similarities to BAT2 genes
4082	16826	29453	2.71	0.0E+00	AF165527.1	NT	Novel human mRNA from chromosome 1, complete cds
4081	13867	26525	0.82	0.0E+00	4826947	NT	Homo sapiens DGCR8 (DGCR8) mRNA, complete cds
4081	13867	26526	0.82	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRICK) mRNA
4087	16840	29466	1.09	0.0E+00	6901805	NT	Homo sapiens protein kinase, X-linked (PRICK) mRNA
4088	16842	29469	1.08	0.0E+00	4503854	NT	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA
							Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4099	16842	29470	1.08	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
4107	16850	29478	0.89	0.0E+00	AB020702.1	NT	Homo sapiens mRNA for KIAA0895 protein, partial cds
4112	16855	29482	4.93	0.0E+00	AJ982897.1	EST_HUMAN	wu04004.x1 NC1 CGAP_G08 Homo sapiens cDNA clone IMAGE:2515975 3'
4112	16855	29483	4.93	0.0E+00	AJ982897.1	EST_HUMAN	wu04004.x1 NC1 CGAP_G08 Homo sapiens cDNA clone IMAGE:2515975 3'
4115	16857	29485	0.82	0.0E+00	BE184856.1	EST_HUMAN	MR1-HT0707-100500-001-e02 HT0707 Homo sapiens cDNA
4115	16857	29486	0.82	0.0E+00	BE184856.1	EST_HUMAN	MR1-HT0707-100500-001-e02 HT0707 Homo sapiens cDNA
4120	16862	29496	2.34	0.0E+00	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:2867690 5'
4128	16868	29496	0.99	0.0E+00	AB032851.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4128	16868	29496	0.99	0.0E+00	AB032851.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4128	16870	29498	2.24	0.0E+00	5729725	NT	Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA
4135	16877		5.52	0.0E+00	AW675599.1	EST_HUMAN	ba51f04.x1 NIH_MGC 10 Homo sapiens cDNA clone IMAGE:2800065 3' similar to SW:TH12_BOVIN
4140	16882	29511	1.14	0.0E+00	AW408788.1	EST_HUMAN	Q95108 MITOCHONDRIAL THIOREDOXIN PRECURSOR
4142	16884	29514	1.26	0.0E+00	8922468	NT	UHF-BMD-est-c-02-Q-JL1 NIH_MGC 38 Homo sapiens cDNA clone IMAGE:3063147 6'
4142	16884	29515	1.26	0.0E+00	8922468	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
							Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
							Homo sapiens polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly, sea urchin homolog)-like (PKDREJ) mRNA
4151	16893		2.8	0.0E+00	5174632	NT	zu68h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu
4169	16909	29537	8.97	0.0E+00	AA401438.1	EST_HUMAN	repetitive element/contains element MER35 repetitive element
4169	16909	29538	8.97	0.0E+00	AA401438.1	EST_HUMAN	repetitive element/contains element MER35 repetitive element
4205	16946	29608	1.01	0.0E+00	AL163303.2	NT	Human apolipoprotein B-100 mRNA, complete cds
4240	16981	29608	4.08	0.0E+00	J02610.1	NT	PM2-DT0023-080300-004-e08 DT0023 Homo sapiens cDNA
4255	16998	29625	0.83	0.0E+00	AW036889.1	EST_HUMAN	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4261	17002	29633	0.74	0.0E+00	4826827	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4261	17002	29634	0.74	0.0E+00	4826827	NT	Homo sapiens F-box protein Fbx4 (FBL4) mRNA, partial cds
4263	17004	29636	4.7	0.0E+00	AF174580.1	NT	gd23f06.x1 Soares_placenta_8to8weeks_2Nbrp78b9W Homo sapiens cDNA clone IMAGE:1724579 3' similar to contains MER20 b2 MER20 repetitive element
4270	17010		2.52	0.0E+00	AH189844.1	EST_HUMAN	Human CBFA3 (Cbfa3) gene, partial cds
4273	17012		4.32	0.0E+00	U14520.1	NT	Homo sapiens preprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
4285	17024	29650	1.35	0.0E+00	4505646	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4291	17030	29657	0.76	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4291	17030	29658	0.76	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4297	17036	29664	1.58	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4297	17038	28666	1.58	0.0E+00	U10891.1	NT	Human G2 protein mRNA, partial cds
4307	17048	28671	8.31	0.0E+00	6812281	NT	Homo sapiens COMPLEMENT COMPONENT C1q RECEPTOR (C1QR), mRNA
4327	17068		1.16	0.0E+00	AF153047.2	NT	Homo sapiens gap junction protein connadin-38 (CX36) gene, complete cds
4337	17078	28704	4.17	0.0E+00	L14581.1	NT	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, partial cds
4341	17080	28709	2.88	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4341	17080	28710	2.88	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4342	17081	28711	0.94	0.0E+00	AW168833.1	EST_HUMAN	XP68010.x1 NCI_CGAP_U44 Homo sapiens cDNA clone IMAGE:2633514 3' similar to TR:P87965 P87965
4348	17087	28717	1.42	0.0E+00	X60483.1	NT	ZINC FINGER PROTEIN 64;
4348	17087	28718	1.42	0.0E+00	X60483.1	NT	H. sapiens H4/d gene for H4 histone
4353	17091	28724	8.62	0.0E+00	7682081	NT	H. sapiens H4/d gene for H4 histone
4353	17091	28725	8.62	0.0E+00	7682081	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4368	17104	28740	12.59	0.0E+00	4885128	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4367	17105	28741	1.14	0.0E+00	AJ271738.1	NT	Homo sapiens caudal type homeo box transcription factor 4 (CDX4), mRNA
4400	17137	28766	0.98	0.0E+00	7019456	NT	Homo sapiens Xq pseudautosomal region, segment 2/2
4408	17145		6.5	0.0E+00	AF195983.1	NT	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA
4414	17151	28778	1.25	0.0E+00	AJ249785.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
4414	17151	28779	1.25	0.0E+00	AJ249785.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4436	17172		1.87	0.0E+00	AF200628.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4453	17189	28814	1.43	0.0E+00	T10233.1	EST_HUMAN	Homo sapiens HPS1 gene, intron 5
4453	17189	28815	1.43	0.0E+00	T10233.1	EST_HUMAN	seq1328 b4HB3MA Cc48-HAP-F1 Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F1205 5'
4456	17192		0.73	0.0E+00	M14123.1	NT	seq1328 b4HB3MA Cc48-HAP-F1 Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F1205 5'
4466	17202	28828	5.68	0.0E+00	AW084984.1	EST_HUMAN	Human endogenous retrovirus HERV-K10
4468	17881		1.57	0.0E+00	8051619	NT	xc68e08.x1 NCI_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:2589446 3' similar to SW:AHNK_HUMAN
4470	17205	28831	0.93	0.0E+00	AI696898.1	EST_HUMAN	Q08688 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN AHNAK;
4473	17208		8.82	0.0E+00	AL163207.2	NT	Homo sapiens LIM domain kinase 2 (LIMK2), transcript variant 2a, mRNA
4475	17210	28835	3.17	0.0E+00	AW381570.1	EST_HUMAN	wc568b02.x1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:2322603 3' similar to contains MER22.b2
4481	17216	28842	1.89	0.0E+00	AJ278120.1	NT	PTR5 repetitive element;
4481	17216	28843	1.89	0.0E+00	AJ278120.1	NT	Homo sapiens chromosome 21 segment HS21C007
4483	17218	28845	1.29	0.0E+00	4758487	NT	PM1-HT0305-101189-002-d03 HT0305 Homo sapiens cDNA
4484	17219	28846	2.88	0.0E+00	AF108830.1	NT	Homo sapiens mRNA for putative ankryin-repeat containing protein (ORF1)
							Homo sapiens mRNA for putative ankryin-repeat containing protein (ORF1)
							Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
							Homo sapiens serine-threonine protein kinase (MNBIH) mRNA, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4493	17229	29858	1.28	0.0E+00	S79884.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
4494	17230	29859	1.08	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4494	17230	29860	1.08	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4502	17882	29870	2.56	0.0E+00	6005973	NT	Homo sapiens zinc finger protein 185 (ZNF185) mRNA
4507	17242	29875	6.16	0.0E+00	AF208191.1	NT	Homo sapiens synovial precursor, mRNA, complete cds
4512	17247	29882	4.31	0.0E+00	AF152337.1	NT	Homo sapiens protoadenin gamma C3 (PCDH-gamma-C3) mRNA, complete cds
4515	17250	29888	1.32	0.0E+00	5454175	NT	Homo sapiens zinc finger protein 211 (ZNF211) mRNA
4525	17280	29894	15.47	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4532	17287	29900	0.79	0.0E+00	4505010	NT	Homo sapiens low density lipoprotein receptor-related protein 6 (LRP6) mRNA, and translated products
4536	17271	29903	1.61	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
4540	17275	29908	2.03	0.0E+00	4502566	NT	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA
4544	17278		2.38	0.0E+00	L35485.1	NT	Homo sapiens iduronate sulphate sulphatase (IDS) gene, complete cds
4546	17281	29910	12.72	0.0E+00	7682091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4546	17281	29911	12.72	0.0E+00	7682091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4563	17298	29925	0.96	0.0E+00	AF143314.1	NT	Homo sapiens PTEN (PTEN) gene, exons 3 through 5
4568	17301	29928	10.33	0.0E+00	AL245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4568	17301	29929	10.33	0.0E+00	AL245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4581	17316		1.68	0.0E+00	AA174072.1	EST_HUMAN	zp18g08.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609854 3'
4583	17318		1.46	0.0E+00	7657410	NT	Homo sapiens cdz (odd Ozher-m, Drosophila) homolog 1 (ODZ1), mRNA
4585	17320		3.16	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4586	17321	29947	1.04	0.0E+00	H82741.1	EST_HUMAN	y82b01.s1 Soares_pineal_gland_N3-HPG Homo sapiens cDNA clone IMAGE:231721 3'
4586	17321	29948	1.04	0.0E+00	H82741.1	EST_HUMAN	y82b01.s1 Soares_pineal_gland_N3-HPG Homo sapiens cDNA clone IMAGE:231721 3'
4587	17322	29949	2.8	0.0E+00	AF194110.1	NT	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds
4588	17323	29950	4.94	0.0E+00	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4589	17324		1.66	0.0E+00	AB037521.1	NT	Homo sapiens gene for natifuric protein, partial cds
4596	17331	29958	1.53	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4596	17331	29959	1.53	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4597	17332	29960	1.52	0.0E+00	AF153819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds
4597	17332	29961	1.52	0.0E+00	AF153819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4608	17333	28982	1.5	0.0E+00	AF167441.1	NT	Mus musculus E-cadherin binding protein E7 mRNA, complete cds
4605	17340	28970	1.22	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4605	17340	28971	1.22	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4611	17346	28979	5.25	0.0E+00	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
4617	17362	28987	1.08	0.0E+00	AA418246.1	EST_HUMAN	z96607.81 Soares_NIH-MIPu_S1 Homo sapiens cDNA clone IMAGE:767605 3'
							Homo sapiens truncated tenascin XB (TNXB) gene, partial cds and TNXA gene recombination breakpoint region
4624	17359		2.27	0.0E+00	AF086841.1	NT	Homo sapiens chromosome 21 segment HS21C078
4626	17364	28988	1.06	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4629	17364	28989	1.06	0.0E+00	AL163278.2	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4630	17365	30000	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4630	17365	30001	2.72	0.0E+00	AB037820.1	NT	Human displacement protein (CCAT1) mRNA
4631	17366	30002	2.67	0.0E+00	M74069.1	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4635	17370	30005	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4635	17370	30006	1.84	0.0E+00	6453812	NT	yea83g04.12 Stratagene fetal spleen (#837205) Homo sapiens cDNA clone IMAGE:68310 5'
4636	12860	25593	0.82	0.0E+00	T58945.1	EST_HUMAN	yea83g04.12 Stratagene fetal spleen (#837205) Homo sapiens cDNA clone IMAGE:68310 5'
4636	12860	25594	0.82	0.0E+00	T58945.1	EST_HUMAN	601158935F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505621 5'
4639	17373		1.31	0.0E+00	BE278730.1	EST_HUMAN	Mus musculus neuroxophilin 1 (Nxp1) gene, large exon and 3' end of the intron, and partial cds
4660	17394	30028	1.33	0.0E+00	U56651.1	NT	Human AHNK nucleoprotein mRNA, 5' end
4665	17399	30033	6.87	0.0E+00	M80902.1	NT	Human hemoglobin and hemoglobin-related protein (HP and HPR) genes, complete cds
4668	17402	30036	2.23	0.0E+00	M69197.1	NT	Human hemoglobin and hemoglobin-related protein (HP and HPR) genes, complete cds
4668	17402	30037	2.23	0.0E+00	M69197.1	NT	Homo sapiens cyclophilin-related protein (NCTR) gene, complete cds
4671	17405	30040	1.9	0.0E+00	AF184110.1	NT	Homo sapiens KIAA0563 gene product (KIAA0563), mRNA
4673	17407	30042	2.02	0.0E+00	7662181	NT	Human proto-oncogene tyrosine-protein kinase (ABL) gene, exon 1a and exons 2-10, complete cds
4680	17414	30049	0.95	0.0E+00	U07583.1	NT	SCN1A=brain type I sodium channel alpha-subunit (IIIS5 transmembrane region) [human, placenta, Genomic, 1556 nt]
4681	17415	30050	0.97	0.0E+00	S71446.1	NT	SCN1A=brain type I sodium channel alpha-subunit (IIIS5 transmembrane region) [human, placenta, Genomic, 1556 nt]
4681	17415	30051	0.97	0.0E+00	S71446.1	NT	Human CYP2D7AP pseudogene for cytochrome P450 2D8
4682	17428		1.45	0.0E+00	X58467.1	NT	Homo sapiens bromodomain adjacent to zinc finger domain, ZB (BAZ2B), mRNA
4701	17435	30065	1.05	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, ZB (BAZ2B), mRNA
4701	17435	30066	1.05	0.0E+00	7304922	NT	Homo sapiens alpha-3 type IX collagen (COL9A3) gene, promoter region, and exons 1-28
4709	17441	30073	1.4	0.0E+00	AF028801.1	NT	Homo sapiens protein x0008 (AD013), mRNA
4712	17444	30076	0.84	0.0E+00	7018320	NT	

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4712	17444	30077	0.84	0.0E+00	7019320	NT	Homo sapiens protein0008 (AD013), mRNA
4735	17467	30103	1.88	0.0E+00	AW444837.1	EST_HUMAN	U44-B13-qiv-c-04-q-UI.s1 NC1 CGAP_Sub5 Homo sapiens cDNA clone IMAGE-2733294 3'
4740	17472		1.82	0.0E+00	AF083242.1	NT	Homo sapiens HSP024-iso mRNA, complete cds
4750	17482		2.28	0.0E+00	M65189.1	NT	Human connexin 43 processed pseudogene
4780	17521		2.78	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
4794	17525	30147	2.02	0.0E+00	X87205.1	NT	M.fascicularis mRNA for metalloproteinase-like, disintegrin-like protein, IVa
4796	17527	30149	1.11	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSOR9) mRNA, complete cds
4797	17528	30150	1.98	0.0E+00	AF097418.1	NT	Mus musculus zinc finger transcription factor Kaiso mRNA, complete cds
4798	17529	30151	3.01	0.0E+00	4503768	NT	Homo sapiens fragile X mental retardation 2 (FMR2) mRNA
4800	17531	30153	13.57	0.0E+00	4885048	NT	Homo sapiens actin, alpha, cardiac muscle (ACTC), mRNA
4801	17532	30154	1.04	0.0E+00	P52740	SWISSPROT	ZINC FINGER PROTEIN 132
4805	17536	30169	5.7	0.0E+00	8823080	NT	Homo sapiens hypothetical protein FLJ20073 (FLJ20073), mRNA
4809	17540	30163	0.97	0.0E+00	7681979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
4810	17541	30164	1.84	0.0E+00	M94081.1	NT	Homo sapiens Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J61 segments; and Tcr-C-alpha gene, exons 1-4
4810	17541	30165	1.84	0.0E+00	M94081.1	NT	Human Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J61 segments; and Tcr-C-alpha gene, exons 1-4
4812	17543	30167	1.44	0.0E+00	X94628.1	NT	J61 segments; and Tcr-C-alpha gene, exons 1-4
4812	17543	30168	1.44	0.0E+00	X94628.1	NT	H.sapiens MeCP-2 gene
4815	17546	30171	2.68	0.0E+00	AL163280.2	NT	H.sapiens MeCP-2 gene
4823	17554	30176	1.17	0.0E+00	6032150	NT	Homo sapiens chromosome 21 segment HSZ1C080
4830	17561	30183	1.09	0.0E+00	X92841.1	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28kD (TAF21) mRNA
4832	17563	30185	1.81	0.0E+00	4585642	NT	H.sapiens MICA gene
4833	17564	30186	1.81	0.0E+00	AB014533.1	NT	Homo sapiens zinc finger protein (KIAA0412) mRNA
4834	17566	30187	2.24	0.0E+00	6677848	NT	Homo sapiens zinc finger protein interacting with K protein 1 (Zik1), mRNA
4835	17566	30188	0.95	0.0E+00	5174560	NT	Mus musculus zinc finger protein interacting with K protein 1 (Zik1), mRNA
4836	17567	30189	1.19	0.0E+00	4758199	NT	Homo sapiens meninoma expressed antigen 6 (colled-coll proline-rich) (MGEA6), mRNA
4838	17569	30191	1.81	0.0E+00	7705546	NT	Homo sapiens desmoplakin (DP1, DP1) (DSP), mRNA
4842	17572	30193	12.62	0.0E+00	AF055086.1	NT	Homo sapiens zinc-finger DNA-binding protein (HUMHOXY1), mRNA
4844	17574		3.47	0.0E+00	4505508	NT	Homo sapiens MHC class 1 region
4845	17575	30199	2.39	0.0E+00	AF091711.1	NT	Homo sapiens opicid receptor, delta 1 (OPRD1) mRNA
4858	17587	30210	1.07	0.0E+00	D63562.1	NT	Homo sapiens splice variant AKAP350 mRNA, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4860	17689	30212	1.68	0.0E+00	4503884	NT	Homo sapiens farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase) (FDPs) mRNA
4865	17224	29852	1.03	0.0E+00	4506952	NT	Homo sapiens statyltransferase 8 (alpha-N-acetylneuraminidase, alpha-2,8-sialyltransferase, GD3 synthase) (SIAT8) mRNA
4875	17602	30224	3.09	0.0E+00	AB006825.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4875	17602	30225	3.09	0.0E+00	AB006825.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4885	17612	30232	0.85	0.0E+00	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4889	17626	30243	1.45	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4908	17633	30248	1.02	0.0E+00	AW452728.1	EST_HUMAN	U1H-B13-4M4-02-0-U1.s1 NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:30686891 3'
4909	17637	30251	1.61	0.0E+00	8822928	NT	Homo sapiens hypothetical protein FLJ11180 (FLJ11180), mRNA
4912	17640	30255	1.09	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, filensin (BFSF1) mRNA
4915	17643		4.69	0.0E+00	U14967.1	NT	Human ribosomal protein L21 mRNA, complete cds
4924	17652		2.95	0.0E+00	BE408863.1	EST_HUMAN	801303739F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638118 5'
4928	17656	30268	3.18	0.0E+00	4758199	NT	Homo sapiens desmoglein (DPI, DPII) (DSP) mRNA
4933	17661	30271	1.15	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
4938	17666	30274	1.01	0.0E+00	AB028868.1	NT	Homo sapiens mRNA for KIAA1043 protein, partial cds
4947	17674	30283	2.34	0.0E+00	8823441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
4947	17674	30284	2.34	0.0E+00	8823441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
4958	17683	30291	0.81	0.0E+00	AA601246.1	EST_HUMAN	nc14g09.s1 NCI CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR-E239140
4958	17683	30292	0.81	0.0E+00	AA601246.1	EST_HUMAN	nc14g09.s1 NCI CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR-E239140
4958	17683	30293	0.81	0.0E+00	AA601246.1	EST_HUMAN	nc14g09.s1 NCI CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR-E239140
4961	17686	30295	1.11	0.0E+00	AF161463.1	NT	Homo sapiens HSPC114 mRNA, complete cds
4961	17686	30296	1.11	0.0E+00	AF161463.1	NT	Homo sapiens HSPC114 mRNA, complete cds
4973	13019	25661	0.71	0.0E+00	AF185658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
4976	17689		0.84	0.0E+00	AL050253.1	NT	H. sapiens mRNA similar to D28763 mouse mRNA for seizure-related gene product 6. Shares domains with BMP2a, Teloid, Sushi repeat proteins
4985	17708	30312	1.63	0.0E+00	AF016705.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 3
4986	17709	30313	1.5	0.0E+00	Y19186.1	NT	Mus musculus mRNA for ezrinin, short spliced variant (ecz gene)
4986	17709	30314	1.5	0.0E+00	Y19186.1	NT	Mus musculus mRNA for ezrinin, short spliced variant (ecz gene)
4994	17717		1.26	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4997	17720		26.03	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
5001	17724	30326	0.97	0.0E+00	AA084272.1	EST_HUMAN	zn03g10.t1 Stratagene hNT neuron (#837233) Homo sapiens cDNA clone IMAGE:548402 5'
5001	17724	30327	0.97	0.0E+00	AA084272.1	EST_HUMAN	zn03g10.t1 Stratagene hNT neuron (#837233) Homo sapiens cDNA clone IMAGE:548402 5'
5012	16824	29553	0.85	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5012	16824	29554	0.95	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5026	17747	30359	3	0.0E+00	X52888.1	NT	Bacillus amyloquelaciens sacB gene for levansucrase (EC 2.4.1.10)
5042	17761	30375	1.04	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5042	17761	30376	1.04	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5045	17764	30380	1.55	0.0E+00	7657074	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5045	17764	30381	1.55	0.0E+00	7657074	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5049	17768	30387	1.11	0.0E+00	AL163281.2	NT	Homo sapiens ecotropic viral integration site 2A (EVI2A), mRNA
5050	17769	30388	14.05	0.0E+00	11421001	NT	Homo sapiens ecotropic viral integration site 2A (EVI2A), mRNA
5052	17771	30389	1.03	0.0E+00	4557362	NT	Homo sapiens chromosome 21 segment HS21C081
5056	17775	30391	2.75	0.0E+00	Y12477.1	NT	Homo sapiens HEF like Protein (HEFL), mRNA
5056	17775	30392	2.75	0.0E+00	Y12477.1	NT	Homo sapiens PR domain containing 1, with ZNF domain (PRDM1) mRNA
5058	17777	30394	1.07	0.0E+00	Y08032.1	NT	Homo sapiens putative GPR37 gene, exon 2
5079	17798	30414	1.01	0.0E+00	8823822	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
5079	17798	30415	1.01	0.0E+00	8823822	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA
5081	17800	30417	0.76	0.0E+00	7706246	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA
5081	17800	30418	0.76	0.0E+00	7706246	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5088	17807	30423	2.69	0.0E+00	7657008	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5097	17816	30433	2.05	0.0E+00	AB011131.1	NT	Homo sapiens deleted in bladder cancer chromosome region candidate 1 (DBCCR1), mRNA
5109	17827	30444	1.23	0.0E+00	D49802.1	NT	Homo sapiens mRNA for KIAA0559 protein, partial cds
						NT	Mus musculus mRNA for leucine-rich repeat protein, partial cds
						NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Plocodo mRNA, complete cds, long splice variant
5110	17828	30445	1.14	0.0E+00	AF227634.1	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Plocodo mRNA, complete cds, long splice variant
5111	17829	30446	1.88	0.0E+00	AF227634.1	NT	variant
5112	17830	30447	0.99	0.0E+00	AF245702.1	NT	Homo sapiens toll-like receptor 7 (TLR7) mRNA, complete cds
5115	17833	30449	6.53	0.0E+00	4505096	NT	Homo sapiens microtubule-associated protein 2 (MAP2) mRNA
5116	17834	30450	1.5	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
5116	17834	30451	1.5	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
5117	17835	30452	1.6	0.0E+00	AW855819.1	EST_HUMAN	Homo sapiens MAGI3 resequencer, MAGD Homo sapiens cDNA
5119	17837		1.31	0.0E+00	AB040946.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
5126	17844		1.12	0.0E+00	AJ010179.1	NT	Homo sapiens gabbr1 receptor gene, exon 6

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5139	17867	30473	5.57	0.0E+00	AB027013.1	NT	Homo sapiens mRNA for Nucleosome Assembly Protein 1-like 2, complete cds
5150	17861	30477	1.19	0.0E+00	AB035358.1	NT	Homo sapiens mRNA for neuritin L-alpha protein, complete cds
5151	17868	30481	1.18	0.0E+00	AB028040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
5154	17871		1.08	0.0E+00	M91803.1	NT	Human sodium channel mRNA
5155	17872	30484	1.37	0.0E+00	5454013	NT	Homo sapiens ring finger protein 15 (RNF15), mRNA
5162	17883		3.44	0.0E+00	AF083083.1	NT	Homo sapiens acornifase (ACO2) gene, nuclear gene encoding mitochondrial protein, exon 15
5172	17881	30485	2.52	0.0E+00	AF137288.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5172	17881	30486	2.52	0.0E+00	AF137288.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5192	18000	30823	1.29	0.0E+00	A1984864.1	EST_HUMAN	wp08g08.x1 NCL_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2494084 3'
5195	18003	30826	1.77	0.0E+00	9258578	NT	Homo sapiens protocadherin alpha 13 (PCDH13), mRNA
5209	18017	30839	3.81	0.0E+00	BE831080.1	EST_HUMAN	RC3-GN0078-310800-013-b03 GN0078 Homo sapiens cDNA
5213	18021	30843	3	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5213	18021	30844	3	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5220	18027	30852	1.68	0.0E+00	X56163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5220	18027	30853	1.66	0.0E+00	X56163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5299	18104	30763	6.58	0.0E+00	BE676488.1	EST_HUMAN	710c08.x1 NCL_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3294250 3'
5300	18105	30764	1.75	0.0E+00	BE220753.1	EST_HUMAN	h199a02.x1 NCL_CGAP_Lu124 Homo sapiens cDNA clone IMAGE:3943804 5'
5301	18108	30765	1.83	0.0E+00	BE784412.1	EST_HUMAN	P42894 HYPOTHETICAL PROTEIN KIAA0054. ;
5301	18108	30766	1.83	0.0E+00	BE784412.1	EST_HUMAN	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
							601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
5302	18107	30767	0.81	0.0E+00	A188142.1	EST_HUMAN	q40-4a04.x1 Soares placenta 8to9weeks 2NHP8089W Homo sapiens cDNA clone IMAGE:1722702 3'
5306	18111	30770	8.17	0.0E+00	M20908.1	NT	similar to SW:T2D3_DROME P49846 TRANSCRIPTION INITIATION FACTOR TFID 85 KD SUBUNIT ;
5319	25068	30780	4.68	0.0E+00	11421038	NT	Homo sapiens eosinophil peroxidase (EPP) gene, exon 7
5329	18132		7.18	0.0E+00	BF665862.1	EST_HUMAN	Homo sapiens Sp4 transcription factor (SP4), mRNA
5330	18133	30761	0.73	0.0E+00	AU134408.1	EST_HUMAN	602118928F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276254 5'
5330	18133	30762	0.73	0.0E+00	AU134408.1	EST_HUMAN	AU134408 OVARC1 Homo sapiens cDNA clone OVARC1001894 5'
5336	18138	30789	1	0.0E+00	BE538857.1	EST_HUMAN	AU134408 OVARC1 Homo sapiens cDNA clone OVARC1001894 5'
5344	18147	30826	1.07	0.0E+00	BE282784.1	EST_HUMAN	601061488F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447839 5'
5348	18151	30831	1.69	0.0E+00	BF526328.1	EST_HUMAN	601105891F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2888310 5'
5348	18151	30832	1.69	0.0E+00	BF526328.1	EST_HUMAN	602071372F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5'
5367	18491	32513	1.82	0.0E+00	4557364	NT	602071372F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5'
5370	18171	30858	0.91	0.0E+00	AB007835.1	NT	Homo sapiens Bloom syndrome (BLM) mRNA
							Homo sapiens mRNA for KIAA0468 protein, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6370	18171	30859	0.91	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0468 protein, partial cds
6374	18174	30863	4.85	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6374	18174	30864	4.85	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6387	18187	30878	1.06	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
6387	18187	30879	1.06	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
6401	18201	30906	1.88	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
6407	18208	30912	0.81	0.0E+00	Z38133.1	NT	H. sapiens mRNA for myosin
6426	18225	30936	0.78	0.0E+00	D61584.1	EST_HUMAN	HUM418D05B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-418D05
6426	18225	30937	0.78	0.0E+00	D61584.1	EST_HUMAN	5'
6429	18228	30941	2.55	0.0E+00	BF528931.1	EST_HUMAN	602042322F1 NCI CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179888 5'
6429	18228	30942	2.55	0.0E+00	BF528931.1	EST_HUMAN	602042322F1 NCI CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179888 5'
6434	18233	30946	2.92	0.0E+00	BF313139.1	EST_HUMAN	601897658F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126815 5'
6445	18244	31132	4.37	0.0E+00	11434392	NT	Homo sapiens cation channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA
6477	18276	31171	1.15	0.0E+00	BE260777.1	EST_HUMAN	601150252F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502909 5'
6488	18285	31171	3.51	0.0E+00	AW867316.1	EST_HUMAN	MRO-SN0037-030400-001-H07 SN0037 Homo sapiens cDNA
6500	18286	31198	2.33	0.0E+00	BE292889.1	EST_HUMAN	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887903 5'
6500	18288	31197	2.33	0.0E+00	BE292889.1	EST_HUMAN	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887903 5'
6521	18319	31219	1.51	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
6521	18319	31220	1.51	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
6528	18328	31228	4.35	0.0E+00	AF064254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
6528	18328	31229	4.35	0.0E+00	AF064254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
6535	18333	31239	2.95	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
6535	18333	31240	2.95	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
6566	18363	31271	0.61	0.0E+00	A1108515.1	EST_HUMAN	Homo sapiens Surf-5 and Surf-6 genes
6570	18367	31277	6.98	0.0E+00	M85719.1	EST_HUMAN	qf84g10.x1 Soares placenta 8to9weeks 2NHP850W Homo sapiens cDNA clone IMAGE:1757730 3'
6577	18374	31288	4.83	0.0E+00	AW405472.1	EST_HUMAN	similar to SW-CADC_HUMAN P56289 BRAIN-CADHERIN PRECURSOR ;
6590	18386	31296	1.25	0.0E+00	Z26269.1	NT	EST02238 Fetal brain, Stratagene (cat#836208) Homo sapiens cDNA clone HFB0448
6601	18398	31306	1.94	0.0E+00	AW361877.1	EST_HUMAN	UI-HF-BL0-acth-4-02-Q-UJ-1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3061658 5'
6601	18398	31307	1.94	0.0E+00	AW361877.1	EST_HUMAN	Human beta-prime-adaptin (BAM22) gene, exon 13
6601	18396	31308	1.94	0.0E+00	AW361877.1	EST_HUMAN	Human beta-prime-adaptin (BAM22) gene, exon 13
6601	18396	31308	1.94	0.0E+00	AW361877.1	EST_HUMAN	Human beta-prime-adaptin (BAM22) gene, exon 13
6605	18401	31315	2.55	0.0E+00	U36261.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 13

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5636	18431	31344	1.03	0.0E+00	AB046981.1	NT	Homo sapiens mRNA for KIAA1641 protein, partial cds
5637	18432	31345	1.03	0.0E+00	AB046982.1	NT	Homo sapiens KVLQ11 gene
5638	18433	31346	1.56	0.0E+00	AJ006345.1	NT	Homo sapiens KVLQ11 gene
5639	18434	31347	1.56	0.0E+00	AJ006345.1	NT	Homo sapiens KVLQ11 gene
5640	18435	31348	1.56	0.0E+00	AJ006345.1	EST_HUMAN	HA2081 Human fetal liver cDNA library Homo sapiens cDNA
5641	18436	31349	1.19	0.0E+00	AJ207616.1	EST_HUMAN	HA2081 Human fetal liver cDNA library Homo sapiens cDNA
5642	18437	31350	6.23	0.0E+00	11418801	NT	Homo sapiens protocadherin beta 2 (PCDH2), mRNA
5643	18438	31351	6.23	0.0E+00	11418801	NT	Homo sapiens protocadherin beta 2 (PCDH2), mRNA
5644	18439	31352	1.21	0.0E+00	BE791173.1	EST_HUMAN	601584032F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3938551 5'
5645	18440	31353	1.13	0.0E+00	9988943	NT	601584032F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3938551 5'
5646	18441	31354	1.13	0.0E+00	9988943	NT	601584032F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3938551 5'
5647	18442	31355	6.69	0.0E+00	BE560082.1	EST_HUMAN	Homo sapiens anion-exchange-sensitive cation channel 1, neuronal (degenerin) (ACCN1), mRNA
5648	18443	31356	1.67	0.0E+00	10048478	NT	601346141F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677843 5'
5649	18444	31357	4.05	0.0E+00	U86981.1	NT	601346141F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677843 5'
5650	18445	31358	4.05	0.0E+00	U86981.1	NT	Mus musculus ezrin (Ezr), mRNA
5651	18446	31359	4.05	0.0E+00	U86981.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5652	18447	31360	4.05	0.0E+00	U86981.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5653	18448	31361	2.28	0.0E+00	BF338635.1	EST_HUMAN	602036272F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4184321 5'
5654	18449	31362	1.03	0.0E+00	AF142821.1	EST_HUMAN	602036272F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4184321 5'
5655	18450	31363	3.06	0.0E+00	BE273983.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5656	18451	31364	3.06	0.0E+00	BE273983.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5657	18452	31365	0.88	0.0E+00	BE503096.1	EST_HUMAN	h283411.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214581 3' similar to TR:Q62084 Q62084
5658	18453	31366	1.87	0.0E+00	BF569005.1	EST_HUMAN	h283411.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214581 3' similar to TR:Q62084 Q62084
5659	18454	31367	1.21	0.0E+00	AA454642.1	EST_HUMAN	PHOSPHOLIPASE C NEIGHBORING
5660	18455	31368	2.38	0.0E+00	AF217289.1	NT	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
5661	18456	31369	2.38	0.0E+00	AF217289.1	NT	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
5662	18457	31370	1.75	0.0E+00	BE828144.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
5663	18458	31371	2.27	0.0E+00	BE868636.1	EST_HUMAN	z099d06.s1 Soares NIHIMPu_S1 Homo sapiens cDNA clone IMAGE:811883 3'
5664	18459	31372	0.55	0.0E+00	BE673988.1	EST_HUMAN	z099d06.s1 Soares NIHIMPu_S1 Homo sapiens cDNA clone IMAGE:811883 3'
5665	18460	31373	0.55	0.0E+00	BE673988.1	EST_HUMAN	z099d06.s1 Soares NIHIMPu_S1 Homo sapiens cDNA clone IMAGE:811883 3'
5666	18461	31374	0.55	0.0E+00	BE673988.1	EST_HUMAN	z099d06.s1 Soares NIHIMPu_S1 Homo sapiens cDNA clone IMAGE:811883 3'
5667	18462	31375	1.14	0.0E+00	AW276760.1	EST_HUMAN	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
5668	18463	31376	1.16	0.0E+00	BF031742.1	EST_HUMAN	RC8-ET0027-210800-022-G10 ET0027 Homo sapiens cDNA
5669	18464	31377	1.16	0.0E+00	BF031742.1	EST_HUMAN	RC8-ET0027-210800-022-G10 ET0027 Homo sapiens cDNA
5670	18465	31378	1.16	0.0E+00	BF031742.1	EST_HUMAN	601645287F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3830463 5'
5671	18466	31379	1.16	0.0E+00	BF031742.1	EST_HUMAN	601645287F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3830463 5'
5672	18467	31380	0.58	0.0E+00	AW470848.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5673	18468	31381	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5674	18469	31382	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5675	18470	31383	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5676	18471	31384	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5677	18472	31385	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5678	18473	31386	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5679	18474	31387	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5680	18475	31388	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5681	18476	31389	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5682	18477	31390	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5683	18478	31391	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5684	18479	31392	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5685	18480	31393	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5686	18481	31394	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5687	18482	31395	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5688	18483	31396	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5689	18484	31397	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5690	18485	31398	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5691	18486	31399	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5692	18487	31400	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5693	18488	31401	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5694	18489	31402	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5695	18490	31403	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5696	18491	31404	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5697	18492	31405	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5698	18493	31406	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5699	18494	31407	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5700	18495	31408	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5701	18496	31409	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5702	18497	31410	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5703	18498	31411	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5704	18499	31412	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5705	18500	31413	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5706	18501	31414	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5707	18502	31415	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5708	18503	31416	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5709	18504	31417	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5710	18505	31418	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5711	18506	31419	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5712	18507	31420	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5713	18508	31421	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5714	18509	31422	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5715	18510	31423	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5716	18511	31424	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5717	18512	31425	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5718	18513	31426	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5719	18514	31427	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5720	18515	31428	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5721	18516	31429	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5722	18517	31430	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5723	18518	31431	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5724	18519	31432	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5725	18520	31433	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5726	18521	31434	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5727	18522	31435	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5728	18523	31436	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5729	18524	31437	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5730	18525	31438	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5731	18526	31439	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5732	18527	31440	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5733	18528	31441	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5734	18529	31442	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5735	18530	31443	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5736	18531	31444	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5737	18532	31445	0.77	0.0E+00	BF156670.1	EST_HUMAN	PS1843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1]:
5738	18533	31446	0.77	0.0E+00	BF156670.1	EST_HUMAN	7672611.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5739	18534	31447	0.77	0.0E+00	BF156670.1		

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5872	18859	31600	0.77	0.0E+00	BF155670.1	EST_HUMAN	QV4-HIT0894-280800-389-a10 HT0894 Homo sapiens cDNA
5878	18864	31604	3.22	0.0E+00	W33069.1	EST_HUMAN	z08h08.r1 Soares_papillary_tumor_NbHPA Homo sapiens cDNA IMAGE:321755 5'
5878	18864	31605	3.22	0.0E+00	W33069.1	EST_HUMAN	z08h08.r1 Soares_papillary_tumor_NbHPA Homo sapiens cDNA IMAGE:321755 5'
5878	18865		2.51	0.0E+00	AF012818.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 14
5882	18868	31609	3.33	0.0E+00	BE280197.1	EST_HUMAN	601158515F1 NIH_MGC_21 Homo sapiens cDNA IMAGE:3505323 5'
5890	18875	31620	2.6	0.0E+00	BE889810.1	EST_HUMAN	601512830F1 NIH_MGC_21 Homo sapiens cDNA IMAGE:3914238 5'
5905	18890	31639	0.6	0.0E+00	AW752848.1	EST_HUMAN	IL3-CT0220-11189-028-E04 GT0220 Homo sapiens cDNA
5908	18892	31641	1.1	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product; synaptic vesicle protein 28 homolog (KIAA0735), mRNA
5908	18892	31642	1.1	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product; synaptic vesicle protein 28 homolog (KIAA0735), mRNA
5908	18893	31643	0.88	0.0E+00	BE901608.1	EST_HUMAN	60167735F1 NIH_MGC_21 Homo sapiens cDNA IMAGE:3960200 5'
5909	18893	31644	0.88	0.0E+00	BE901608.1	EST_HUMAN	60167735F1 NIH_MGC_21 Homo sapiens cDNA IMAGE:3960200 5'
5909	18893	31645	0.88	0.0E+00	BE901608.1	EST_HUMAN	60167735F1 NIH_MGC_21 Homo sapiens cDNA IMAGE:3960200 5'
5923	25081	31691	10.88	0.0E+00	9789988	NT	Homo sapiens potassium voltage-gated channel, Shal-related subfamily, member 2 (KCOND2), mRNA
5928	18710	31694	1.2	0.0E+00	AA193508.1	EST_HUMAN	zr40h01.r1 Soares_NbHMPu_S1 Homo sapiens cDNA IMAGE:865905 5' similar to SW:YY05_HUMAN P42894 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5.;
5928	18710	31695	1.2	0.0E+00	AA193508.1	EST_HUMAN	zr40h01.r1 Soares_NbHMPu_S1 Homo sapiens cDNA IMAGE:865905 5' similar to SW:YY05_HUMAN P42894 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5.;
5948	18730	31698	16.77	0.0E+00	U94625.1	NT	Human T cell surface glycoprotein CD-8 mRNA, complete cds
5948	18730	31699	16.77	0.0E+00	U94625.1	NT	Human T cell surface glycoprotein CD-8 mRNA, complete cds
5967	18768	31732	0.89	0.0E+00	BE258330.1	EST_HUMAN	601114823F1 NIH_MGC_16 Homo sapiens cDNA IMAGE:3355585 5'
5997	18778	31740	1.2	0.0E+00	BE156661.1	EST_HUMAN	QV0-HT0368-090200-098-a09 HT0368 Homo sapiens cDNA
6007	18788	31750	0.85	0.0E+00	M38107.1	NT	Human neurofibromatosis type 1 (NF-1) mRNA, 3' end of cds
6040	18820	31781	1.32	0.0E+00	BE379007.1	EST_HUMAN	601236276F1 NIH_MGC_44 Homo sapiens cDNA IMAGE:3608490 5'
6046	18828	31787	1.39	0.0E+00	AU137772.1	EST_HUMAN	AU137772 PLACE1 Homo sapiens cDNA clone PLACE1007201 5'
6066	18845	31809	3.76	0.0E+00	U45982.1	NT	Human G protein-coupled receptor GPR-9-6 gene, complete cds
6094	18872	31839	4.52	0.0E+00	AA204740.1	EST_HUMAN	zq81d03.r1 Stragene NHT neuron (#837233) Homo sapiens cDNA IMAGE:848005 5' similar to TR:G854195 G854195 LEUKOCYTE SURFACE PROTEIN.;
6095	18873	31840	3.97	0.0E+00	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6095	18873	31841	3.97	0.0E+00	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6129	18907	31875	1.14	0.0E+00	11426367	NT	Homo sapiens carboxymyosin antigen-related cell adhesion molecule 8 (CEACAM8), mRNA
6133	18911	31880	2.87	0.0E+00	BE257173.1	EST_HUMAN	601109532F1 NIH_MGC_16 Homo sapiens cDNA IMAGE:3350622 5'
6147	18924		0.85	0.0E+00	AF889048.1	EST_HUMAN	H81f10.x1 NCI_CGAP_P28 Homo sapiens cDNA IMAGE:2248839 3' similar to TR:Q14839 Q14839 MI-2 PROTEIN.;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6151	18928	31897	1.53	0.0E+00	L35930.1	NT	Human anion exchanger (AE1) gene, exons 1-20
6159	18936	31903	1.22	0.0E+00	BE797385.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942328 5'
6169	18936	31904	1.22	0.0E+00	BE797385.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942328 5'
6170	18947	31918	0.57	0.0E+00	AI198025.1	EST_HUMAN	q50b11.x1 NCI_CGAP_Brm25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TR-Q12838 Q12838 TFIIIC ALPHA SUBUNIT;
6170	18947	31920	0.57	0.0E+00	AI198025.1	EST_HUMAN	q50b11.x1 NCI_CGAP_Brm25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TR-Q12838 Q12838 TFIIIC ALPHA SUBUNIT;
6172	18949	31921	0.85	0.0E+00	BF357123.1	EST_HUMAN	MR0-HT0923-220800-102-505 HT0923 Homo sapiens cDNA
6180	18957	31931	1.08	0.0E+00	11435630	NT	Homo sapiens peptide transporter 3 (LOC31296), mRNA
6189	18968	31939	0.65	0.0E+00	D56849.1	NT	Human mRNA for alpha mannosidase II isozyme, complete cds
6207	18982	31981	1.03	0.0E+00	AW176142.1	EST_HUMAN	IL3-HT0062-010989-014-A04 HT0062 Homo sapiens cDNA
6226	19002	31978	0.66	0.0E+00	BE674544.1	EST_HUMAN	7602c12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3281302 3' similar to SW:Y178_HUMAN Q14681-HYPOTHETICAL PROTEIN KIAA0176;
6232	19006	31983	1.33	0.0E+00	7662039	NT	Homo sapiens KIAA0285 gene product (KIAA0285), mRNA
6246	19020		8.59	0.0E+00	AV650020.1	EST_HUMAN	AV650020 GLC Homo sapiens cDNA clone GLCCAD09 3'
6254	19028	32003	3.13	0.0E+00	AW675598.1	EST_HUMAN	UHIF-BLD-eco-g-12-Q-JLs1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3058751 3'
6257	19031	32006	6.26	0.0E+00	H01255.1	EST_HUMAN	yj27603.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:149633 5'
6269	19042	32019	1.6	0.0E+00	X15377.1	NT	Human gene for the light and heavy chains of myeloperoxidase
6271	19044	32021	0.65	0.0E+00	AA456375.1	EST_HUMAN	aa14607.r1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:813252 5'
6272	19045	32022	1.3	0.0E+00	AI612841.1	EST_HUMAN	ts57d08.x1 NCI_CGAP_Ov85 Homo sapiens cDNA clone IMAGE:2282887 3' similar to SW:NTCS_HUMAN P63798 SODIUM- AND CHLORIDE-DEPENDENT CREATINE TRANSPORTER 2;
6276	19051	32028	4.71	0.0E+00	BE735989.1	EST_HUMAN	601305398F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3633616 5'
6278	19061	32029	4.71	0.0E+00	BE735989.1	EST_HUMAN	601305398F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3633616 5'
6282	19055	32035	0.86	0.0E+00	AW748596.1	EST_HUMAN	MR0-BT0284-221199-002-F11 BT0284 Homo sapiens cDNA
6282	19055	32036	0.86	0.0E+00	AW748596.1	EST_HUMAN	MR0-BT0284-221199-002-F11 BT0284 Homo sapiens cDNA
6283	19056		0.6	0.0E+00	U77628.1	NT	Homo sapiens Achaete-Scute homologue 2 (ASCL2) gene, complete cds
6285	19058	32038	15.59	0.0E+00	AU19245.1	EST_HUMAN	AU19245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6285	19058	32039	15.59	0.0E+00	AU19245.1	EST_HUMAN	AU19245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6289	19062	32044	0.8	0.0E+00	BE780453.1	EST_HUMAN	601488712F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3871899 5'
6290	19063	32045	1.12	0.0E+00	X82217.1	NT	H. sapiens gemtine immunoglobulin heavy chain, variable region, (13-2)
6304	19076	32062	1.52	0.0E+00	AI699483.1	EST_HUMAN	ws25607.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2498220 3'
6317	19088	32072	6.91	0.0E+00	BE283153.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887863 5'
6317	19088	32073	6.91	0.0E+00	BE283153.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887863 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6355	19125	32119	0.58	0.0E+00	BF057438.1	EST_HUMAN	7k43H05.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3479496 3' similar to TR:O14563 O14563 R31240.1;
6368	19157	32157	1.89	0.0E+00	AW406348.1	EST_HUMAN	UHF-BL0-eco-H-02-0-UI-1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059331 5'
6368	19157	32158	1.89	0.0E+00	AW406348.1	EST_HUMAN	UHF-BL0-eco-H-02-0-UI-1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059331 5'
6418	19186	32184	0.79	0.0E+00	AV719444.1	EST_HUMAN	AV719444 GLC Homo sapiens cDNA clone GLCEHC08 5'
6427	19185	32191	0.98	0.0E+00	BE898340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6427	19185	32192	0.98	0.0E+00	BE898340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6430	19198	32195	2.24	0.0E+00	AF180860.1	NT	Homo sapiens low voltage-activated T-type calcium channel alpha 1G splice variant CavT.1a (CACNA1G) mRNA, complete cds
6433	19201	32197	1.17	0.0E+00	114201698	NT	Homo sapiens transformation/transcription domain-associated protein (TRRAP), mRNA
6440	19208	32204	7.5	0.0E+00	AW163840.1	EST_HUMAN	aus68H08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:O16390 O16390 GT24. [3] TR:O43940 TR:O43206;
6440	19208	32205	7.5	0.0E+00	AW163840.1	EST_HUMAN	aus68H08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:O16390 O16390 GT24. [3] TR:O43940 TR:O43206;
6444	19212	32208	0.97	0.0E+00	W37163.1	EST_HUMAN	zb20a06.l1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:302626 5' similar to SW:ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45;
6444	19212	32209	0.97	0.0E+00	W37163.1	EST_HUMAN	zb20a06.l1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:302626 5' similar to SW:ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45;
6459	19226	32226	1.08	0.0E+00	BE794893.1	EST_HUMAN	601589371F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943504 5'
6466	19233	32233	5.81	0.0E+00	BE799873.1	EST_HUMAN	601587561F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941847 5'
6467	19234	32234	0.56	0.0E+00	BE767055.1	EST_HUMAN	QV1-GN0065-140800-318-H02 GN0065 Homo sapiens cDNA
6467	19234	32235	0.56	0.0E+00	BE767055.1	EST_HUMAN	QV1-GN0065-140800-318-H02 GN0065 Homo sapiens cDNA
6471	19238	32238	6.95	0.0E+00	BE898313.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6471	19238	32239	6.95	0.0E+00	BE898313.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6480	19247	32247	5.62	0.0E+00	L24493.1	NT	Human antigen CD27 gene, exons 1-2
6485	19252	32251	1.98	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6485	19252	32252	1.98	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6491	19258	32259	4.06	0.0E+00	6005993	NT	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
6494	19280	32261	4.76	0.0E+00	AL638412.1	EST_HUMAN	tt31f11.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2242413 3' similar to SW:WNT3_MOUSE P17553 WNT-3 PROTO-ONCOGENE PROTEIN PRECURSOR.;
6495	19281	32262	1.36	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATF1-A) mRNA, complete cds
6507	19272	32273	4.12	0.0E+00	AA434594.1	EST_HUMAN	zw52603.l1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:773668 5'
6520	19286		0.99	0.0E+00	BF217200.1	EST_HUMAN	601685317F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103693 5'
6523	19289	32283	1.82	0.0E+00	BE925875.1	EST_HUMAN	QV3-BN0047-300800-278-c06 BN0047 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6554	19319	32326	1.11	0.0E+00	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6554	19319	32326	1.11	0.0E+00	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6571	19335	32346	1.8	0.0E+00	AL125928.1	EST_HUMAN	AU125928 NT2RM4 Homo sapiens cDNA clone NT2RM4002430 5'
6573	19337	32348	1.88	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-h10 NN0174 Homo sapiens cDNA
6573	19337	32349	1.88	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-h10 NN0174 Homo sapiens cDNA
6594	19357	32371	1.67	0.0E+00	BE142363.1	EST_HUMAN	GM0-HT0143-270899-062-d08 HT0143 Homo sapiens cDNA
6614	19377	32391	1.44	0.0E+00	BE006012.1	EST_HUMAN	RC0-BN0121-280300-032-e04 BN0121 Homo sapiens cDNA
6614	19377	32392	1.44	0.0E+00	BE006012.1	EST_HUMAN	RC0-BN0121-280300-032-e04 BN0121 Homo sapiens cDNA
6638	19400	32415	8.38	0.0E+00	BE160131.1	EST_HUMAN	PM3-HT0520-230200-002-c08 HT0520 Homo sapiens cDNA
6640	19402	32417	1.93	0.0E+00	BF085687.1	EST_HUMAN	IL6-GN0032-180800-145-d07 GN0032 Homo sapiens cDNA
6678	19595	32633	3.49	0.0E+00	AA190765.1	EST_HUMAN	zp88e03.f1 Stratiogene Hela cell s3 937218 Homo sapiens cDNA clone IMAGE:627292 5'
6690	19607	32647	0.94	0.0E+00	U39573.1	NT	Human salivary peroxidase mRNA, complete cds
6693	19610	32649	0.91	0.0E+00	BE671987.1	EST_HUMAN	7e49b07.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:3222037 3' similar to TR:Q8Z285 Q8Z285 TEKIN ;
6703	19618	32660	6.69	0.0E+00	AI940621.1	EST_HUMAN	IL3-ST0024-230789-001-B01 ST0024 Homo sapiens cDNA
6703	19618	32661	6.63	0.0E+00	AI940621.1	EST_HUMAN	IL3-ST0024-230789-001-B01 ST0024 Homo sapiens cDNA
6714	19629	32674	1.91	0.0E+00	11495628	NT	Homo sapiens CD8 antigen (CD8), mRNA
6726	19660	32592	0.99	0.0E+00	AL042443.1	EST_HUMAN	DKFZp434D2021_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D2021 5'
6729	19563	32596	0.9	0.0E+00	AI168270.1	EST_HUMAN	ccr0d01.x1 Soares_NSF_F8_gW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1665761 3' similar to TR:Q26623 Q26623 TEKIN G1 ;
6734	19569	32600	0.83	0.0E+00	BE734087.1	EST_HUMAN	601567970F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842080 5'
6752	17921	30566	1.88	0.0E+00	BE568381.1	EST_HUMAN	601330977F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3882287 5'
6761	17930	30565	11.84	0.0E+00	BE887899.1	EST_HUMAN	601443667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847687 5'
6761	17930	30566	11.84	0.0E+00	BE887899.1	EST_HUMAN	601443667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847687 5'
6768	19510	32535	2.2	0.0E+00	BE550162.1	EST_HUMAN	7b49f03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG65_HUMAN Q08379 GOLGIN-95 ;
6768	19510	32536	2.2	0.0E+00	BE550162.1	EST_HUMAN	7b49f03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG65_HUMAN Q08379 GOLGIN-95 ;
6780	19534	32562	1.25	0.0E+00	BF088376.1	EST_HUMAN	CM1-HT0877-060900-397-g11 HT0877 Homo sapiens cDNA
6788	19540	32568	2.48	0.0E+00	AA195106.1	EST_HUMAN	z334g03.f1 Soares_NhlMPu_S1 Homo sapiens cDNA clone IMAGE:666332 5'
6803	19484		12.37	0.0E+00	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6805	19468	32487	1.08	0.0E+00	11431474	NT	Homo sapiens sodium channel, nonvoltage-gated 1, beta (Liddle syndrome) (SCNN1B), mRNA
6807	19468	32490	0.8	0.0E+00	BE313075.1	EST_HUMAN	601150682F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
6807	19468	32491	0.8	0.0E+00	BE313075.1	EST_HUMAN	601150682F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
6822	19483	32505	2.89	0.0E+00	BF568805.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310078 5'
6837	19489		2.32	0.0E+00	J03068.1	NT	Human MYCL2 gene, complete cds
6845	19545	32573	3.52	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6845	19545	32574	3.52	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6846	19546	32575	1.18	0.0E+00	U68113.1	NT	Human neurofibromatosis type 1 gene, exon x8
6858	17835	30571	3.2	0.0E+00	11420775	NT	Homo sapiens melanoma antigen, family B, 2 (MAGEB2), mRNA
6859	17936	30572	0.74	0.0E+00	A419868.1	EST_HUMAN	IG53C08.X1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112480 3' similar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN. ;
6859	17936	30573	0.74	0.0E+00	A419868.1	EST_HUMAN	IG53C08.X1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112480 3' similar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN. ;
6863	17940	30578	0.78	0.0E+00	BE258708.1	EST_HUMAN	601115515F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3359330 5'
6874	17950	30546	0.58	0.0E+00	BE904955.1	EST_HUMAN	601486743F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3888739 5'
6884	17960	30514	1.05	0.0E+00	AU118478.1	EST_HUMAN	AU118478 HEMBA1 Homo sapiens cDNA clone HEMBA1003679 5'
6887	17963	30518	8.08	0.0E+00	BE282941.1	EST_HUMAN	601148954F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3301829 5'
6888	17984	30519	2.28	0.0E+00	Z37978.1	NT	H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
6888	17984	30520	2.28	0.0E+00	Z37978.1	NT	H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
6889	17985	30521	3.26	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6889	17985	30522	3.26	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6894	17970	30527	1.08	0.0E+00	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
6899	19637	32681	1.03	0.0E+00	BE762770.1	EST_HUMAN	QV3-NT0022-140800-223-101 NT0022 Homo sapiens cDNA
6904	19642	32687	2.37	0.0E+00	BF669805.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310078 5'
6908	19646	32682	4.53	0.0E+00	L01978.1	NT	Human type IV sodium channel alpha polypeptide (SCN4A) gene, exon 19
6913	19650	32698	0.79	0.0E+00	AW502362.1	EST_HUMAN	U1-HF-BR0p-aka-d-10-Q-JL1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076280 5'
6913	19650	32697	0.79	0.0E+00	AW502362.1	EST_HUMAN	U1-HF-BR0p-aka-d-10-Q-JL1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076280 5'
6922	19658	32704	0.7	0.0E+00	AL039581.1	EST_HUMAN	DKFZp434D2211.1 434 (synonym: hssc3) Homo sapiens cDNA clone DKFZp434D2211 5'
6922	19658	32705	0.7	0.0E+00	AL039581.1	EST_HUMAN	DKFZp434D2211.1 434 (synonym: hssc3) Homo sapiens cDNA clone DKFZp434D2211 5'
6929	19665	32711	5.87	0.0E+00	BF306808.1	EST_HUMAN	601188082F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
6934	19689	32715	2.33	0.0E+00	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
6972	19454	32474	1.18	0.0E+00	AL049784.1	NT	Novel human gene mapping to chromosome 13
7008	19700	32754	0.65	0.0E+00	AB026883.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7008	19700	32755	0.65	0.0E+00	AB028833.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds
7013	19705	32761	1.07	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7013	19705	32762	1.07	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7019	19711	32768	1.2	0.0E+00	AW654806.1	EST_HUMAN	EST368878 MAGE resequences, MAGC Homo sapiens cDNA
7020	19712	32769	0.9	0.0E+00	BE254103.1	EST_HUMAN	601113958F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3354566 5'
7033	19725	32781	0.98	0.0E+00	L01973.1	NT	Human type VI sodium channel alpha polypeptide (SCN4A) gene, exon 14
7041	19732	32791	0.64	0.0E+00	AB007835.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
7041	19732	32792	0.94	0.0E+00	AB007835.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
7047	19738	32799	2.73	0.0E+00	AU133213.1	EST_HUMAN	AU133213 NT2RP4 Homo sapiens cDNA clone NT2RP4001568 5'
7062	19753	32818	0.95	0.0E+00	11428081	NT	Homo sapiens membrane protein CH1 (CH1), mRNA
7084	19755	32820	0.56	0.0E+00	AA312125.1	EST_HUMAN	EST182818 Jurkat T-cells VI Homo sapiens cDNA 5' end
7069	19760		2.57	0.0E+00	AU149708.1	EST_HUMAN	AU143708 Y79AA1 Homo sapiens cDNA clone Y79AA1002365 5'
7070	19761	32825	0.94	0.0E+00	4758839	NT	Homo sapiens nefin 1 (NTN1), mRNA
7079	19770	32834	1.32	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7079	19770	32836	1.32	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7100	17881	30495	2.54	0.0E+00	AF197286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7100	17881	30498	2.54	0.0E+00	AF197286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7122	19810	32876	5.01	0.0E+00	11436699	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7122	19810	32877	5.01	0.0E+00	11436699	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7137	19824	32891	0.55	0.0E+00	AF227744.1	NT	Homo sapiens voltage-dependent calcium channel alpha 1G subunit isoform aa (CACNA1G) mRNA, complete cds
7156	19843	32911	37.67	0.0E+00	A1128344.1	EST_HUMAN	qc57a07.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:1714844 3' similar to SW-ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR, contains element HGR repetitive element ;
7156	19843	32912	37.67	0.0E+00	A1128344.1	EST_HUMAN	qc57a07.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:1714844 3' similar to SW-ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR, contains element HGR repetitive element ;
7158	19845	32914	0.66	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R8 gene, complete cds
7158	19845	32915	0.66	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R8 gene, complete cds
7161	19848	32918	4.65	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7161	19848	32919	4.65	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7163	19850		15.23	0.0E+00	BF337375.1	EST_HUMAN	602035089F1 NCJ_CGAP_Erm64 Homo sapiens cDNA clone IMAGE:4182839 5'
7165	19852	32921	2.85	0.0E+00	AA1128453.1	EST_HUMAN	zn60f08.l1 Stratagene muscle 937208 Homo sapiens cDNA clone IMAGE:562801 5' similar to TR-08005662 G806562 NEBULIN ;

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7170	19856	32927	0.7	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0228_r1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0228 5'
7170	19856	32928	0.7	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0228_r1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0228 5'
7208	19893	32969	1.09	0.0E+00	BE295499.1	EST_HUMAN	601174578F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528784 5'
7210	19895	32970	1	0.0E+00	11427965	NT	Homo sapiens hypothetical protein (FLJ20281), mRNA
7213	19898		1.42	0.0E+00	AU116807.1	EST_HUMAN	AU116807 HEMBA1 Homo sapiens cDNA clone HEMBA1003969 5'
7214	19899	32973	1.99	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7214	19899	32974	1.99	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7226	19911	32984	0.87	0.0E+00	AF245503.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7232	19917	32988	8.04	0.0E+00	X70172.1	NT	Homo sapiens adiccan mRNA, complete cds
7234	19919	32991	8.51	0.0E+00	U45448.1	NT	H. sapiens DNA for ZNGP2 pseudogene, exon 4
7234	19919	32992	8.51	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
7247	19932	33007	0.86	0.0E+00	AW955503.1	EST_HUMAN	Human P2x1 receptor mRNA, complete cds
7249	19934	33008	0.56	0.0E+00	BE672445.1	EST_HUMAN	EST368573 MAGC resequences, MAGD Homo sapiens cDNA
7250	19935	33010	2.52	0.0E+00	AW950516.1	EST_HUMAN	7660108.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:3223167 3' similar to gb:M64911_ma1 IG
7273	19957	33038	0.57	0.0E+00	AF001543.1	EST_HUMAN	HEAVY CHAIN PRECURSOR V-II REGION (HUMAN);
7273	19957	33039	0.57	0.0E+00	AF001543.1	EST_HUMAN	EST362586 MAGC resequences, MAGA Homo sapiens cDNA
7273	19957	33034	0.57	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7273	19957	33035	0.57	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7282	19975		0.56	0.0E+00	M60354.1	NT	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7293	19976	33053	0.98	0.0E+00	BE408293.1	EST_HUMAN	Human BTF3 protein homologue gene, complete cds
7305	19988	33064	0.6	0.0E+00	AW402542.1	EST_HUMAN	601302679F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3637434 5'
7322	20005		1.43	0.0E+00	R87430.1	EST_HUMAN	UHLIF-BKO-eas-g-07-0-UL1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054924 5'
7323	20008	33083	1.88	0.0E+00	AW238326.1	EST_HUMAN	yn-88h10.r1 Soares adult brain N2b-4f-B55Y Homo sapiens cDNA clone IMAGE:168051 5'
7342	20023		1.31	0.0E+00	AU117553.1	EST_HUMAN	x838a05.y1 NCI_CGAP_Lu31 Homo sapiens cDNA clone IMAGE:2578840 5' similar to TR:Q08050 Q08050
7344	20025	33101	3.67	0.0E+00	11427135	NT	HNF3FH TRANSCRIPTION FACTOR GENESIS :
7368	20048	33125	0.58	0.0E+00	BF229235.1	EST_HUMAN	AU117553 HEMBA1 Homo sapiens cDNA clone HEMBA1001861 5'
7372	20052	33133	0.67	0.0E+00	L32832.1	NT	Homo sapiens glucagon-like peptide 2 receptor (GLP2R), mRNA
7397	20075	33154	1.18	0.0E+00	BF306998.1	EST_HUMAN	MRO-AN0083-270900-004-407 AN0083 Homo sapiens cDNA
7397	20075	33155	1.18	0.0E+00	BF306998.1	EST_HUMAN	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
7408	20083	33166	0.92	0.0E+00	AU118767.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7460	20133	33223	4.16	0.0E+00	AF732561.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
							AU118767 HEMBA1 Homo sapiens cDNA clone HEMBA1004314 5'
							cn17405.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17405 random

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7460	20133	33224	4.16	0.0E+00	AU752561.1	EST_HUMAN	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NH-TBC_cn17d05 random
7535	20205	33301	1.83	0.0E+00	AF064205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7535	20205	33302	1.83	0.0E+00	AF064205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7543	20213	33313	1.14	0.0E+00	U74315.1	EST_HUMAN	HSU74315 Human chromosome 14 Homo sapiens cDNA clone 1-4
7557	20227	33330	1.1	0.0E+00	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaaphorin) 5A (SEMA5A), mRNA
7570	20239	33343	2.28	0.0E+00	AW672785.1	EST_HUMAN	ba01e08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823106 5' similar to SW:P101_PIG 002686
7570	20239	33344	2.28	0.0E+00	AW672785.1	EST_HUMAN	PHOSPHATIDYLINOSITOL 3-KINASE REGULATORY SUBUNIT ; ba01e08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823106 5' similar to SW:P101_PIG 002688
7598	20264	33360	1.97	0.0E+00	AU825504.1	EST_HUMAN	PHOSPHATIDYLINOSITOL 3-KINASE REGULATORY SUBUNIT ; wb17g05.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363
7598	20264	33361	1.97	0.0E+00	AU825504.1	EST_HUMAN	AI8C1.1 ; wb17g05.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363
7594	20262	33370	1.51	0.0E+00	6912735	NT	AI8C1.1 ; Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
7599	20265	33373	1.09	0.0E+00	N76128.1	EST_HUMAN	za86a05.s1 Soares_fetal_lung_NHIL19W Homo sapiens cDNA clone IMAGE:289458 3'
7604	20270	33377	5.87	0.0E+00	BF217905.1	EST_HUMAN	601885465F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103729 5'
7613	20279	33387	5.41	0.0E+00	AU120622.1	EST_HUMAN	AU120622 NT2RP2 Homo sapiens cDNA clone NT2RP2005913 5'
7633	25117	33406	0.97	0.0E+00	AW069274.1	EST_HUMAN	cr42e08.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42e08 3'
7633	25117	33407	0.97	0.0E+00	AW069274.1	EST_HUMAN	cr42e08.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42e08 3'
7638	20301	33409	6.28	0.0E+00	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7643	20308	33416	1.13	0.0E+00	AV758467.1	EST_HUMAN	AV758467 BM Homo sapiens cDNA clone BMFBG005 5'
7645	20309	33417	6.31	0.0E+00	BE739870.1	EST_HUMAN	601593156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
7645	20309	33418	6.31	0.0E+00	BE739870.1	EST_HUMAN	601593156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
7646	20310	33419	1.18	0.0E+00	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KJAA0705), mRNA
7646	20310	33420	1.18	0.0E+00	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KJAA0705), mRNA
7647	20311	33421	0.71	0.0E+00	AU120424.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
7647	20311	33422	0.71	0.0E+00	AU120424.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
7650	20344	33456	1.81	0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3894258 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7680	20344	33457	1.81	0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3884258 5'
7720	20384	33498	0.83	0.0E+00	W62673.1	EST_HUMAN	z89010.1 Pancreatic islet Homo sapiens cDNA clone IMAGE:338443 5'
7734	20388	33513	0.96	0.0E+00	AW402832.1	EST_HUMAN	U1HF-BKO-aal-b-08-0-UL1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3053915 5'
7735	20400	33515	0.76	0.0E+00	AA760692.1	EST_HUMAN	n213a08.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287638 3' similar to gbtU01828 MICROTUBULE-ASSOCIATED PROTEIN 2 (HUMAN);
7735	20400	33516	0.76	0.0E+00	AA760692.1	EST_HUMAN	n213a08.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287638 3' similar to gbtU01828 MICROTUBULE-ASSOCIATED PROTEIN 2 (HUMAN);
7762	20448	33572	0.84	0.0E+00	AU193187.1	EST_HUMAN	AL133187 NT2RP4 Homo sapiens cDNA clone NT2RP4001507 5'
7812	20507	33630	0.82	0.0E+00	BE313013.1	EST_HUMAN	601150347F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503050 5'
7824	20519	33645	1.13	0.0E+00	AA149781.1	EST_HUMAN	z801c06.l1 Stratiogene cdon (#837204) Homo sapiens cDNA clone IMAGE:568410 5'
7837	20532	33659	0.84	0.0E+00	BF026828.1	EST_HUMAN	601672310F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3955131 5'
7849	20544	33672	0.45	0.0E+00	AA017021.1	EST_HUMAN	z833h08.l1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360831 5'
7868	20561	33688	2.31	0.0E+00	BE736046.1	EST_HUMAN	601305638F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3636903 5'
7881	20576	33703	10.46	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
7881	20576	33704	10.46	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
7909	20604	33734	0.74	0.0E+00	AW674591.1	EST_HUMAN	bb34402.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:084652 084652 F17K2.26 PROTEIN.;
7909	20604	33735	0.74	0.0E+00	AW674591.1	EST_HUMAN	bb34402.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:084652 084652 F17K2.26 PROTEIN.;
7916	20611	33741	3.91	0.0E+00	AA397551.1	EST_HUMAN	z881b04.l1 Stratiogene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
7918	20613	33742	1.41	0.0E+00	AW387131.1	EST_HUMAN	MR0-ST0031-061009-003-a11 ST0031 Homo sapiens cDNA Homo sapiens mRNA for KIAA0884 protein, partial cds
7921	20616		0.73	0.0E+00	AB020691.1	NT	Homo sapiens mRNA for KIAA0884 protein, partial cds
7922	20617	33744	7.02	0.0E+00	AU142402.1	EST_HUMAN	AU142402 Y79AA1 Homo sapiens cDNA clone Y79AA1000277 5'
7928	20621	33748	1.83	0.0E+00	BE388421.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
7928	20621	33749	1.83	0.0E+00	BE388421.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
7942	20637	33784	1.09	0.0E+00	W96278.1	EST_HUMAN	z805401.l1 Soares fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:359081 5'
7942	20637	33785	1.09	0.0E+00	W96278.1	EST_HUMAN	z805401.l1 Soares fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:359081 5'
7944	20639		6.89	0.0E+00	BF673096.1	EST_HUMAN	602163008F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294128 5'
7948	20643		0.67	0.0E+00	AU134114.1	EST_HUMAN	AU134114 OVARC1 Homo sapiens cDNA clone OVARC1001288 5'
7962	20657	33782	0.95	0.0E+00	BF525634.1	EST_HUMAN	602068632F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4212727 5'
7962	20657	33783	0.95	0.0E+00	BF525634.1	EST_HUMAN	602068632F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4212727 5'
7992	20687	33813	1.59	0.0E+00	AL120124.1	EST_HUMAN	DKFZp761P0392_l1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761P0392 5'
7992	20687	33814	1.59	0.0E+00	AL120124.1	EST_HUMAN	DKFZp761P0392_l1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761P0392 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
8035	20730		1.32	0.0E+00	BE877893.1	EST_HUMAN	601485254F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3887775 5'
8057	20761	33882	2.48	0.0E+00	AW500549.1	EST_HUMAN	U1HF-8N0-ek4-f01-Q-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077496 5'
8065	20769	33888	18.05	0.0E+00	AW157233.1	EST_HUMAN	eu383608.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783789 3' similar to TR:060468 060463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE [1]; xas07d12.x1 Soares_NFL_T_G8C_S1 Homo sapiens cDNA clone IMAGE:2867639 3' similar to contigs element OFR repetitive element:
8082	20776	33908	0.88	0.0E+00	AW072395.1	EST_HUMAN	Homo sapiens centrosomal protein 2 (CEP2), mRNA
8088	20783	33924	1.09	0.0E+00	11421722	NT	
8102	20786	33927	1.07	0.0E+00	W01616.1	EST_HUMAN	zab6d05.f1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:204633 5'
8104	20788	33929	1.22	0.0E+00	BE745697.1	EST_HUMAN	601578195F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926898 5'
8104	20788	33930	1.22	0.0E+00	BE745697.1	EST_HUMAN	601578195F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926898 5'
8115	20809	33943	1.46	0.0E+00	AJ271735.1	NT	Homo sapiens Xq pseudobulbar region, segment 1/2
8154	20848	33980	0.95	0.0E+00	AJ367350.1	EST_HUMAN	q95c12.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:1989334 3' similar to TR:Q14673 Q14673 KIAA0164 PROTEIN.;
8165	20869	33991	2.63	0.0E+00	BE674157.1	EST_HUMAN	7d78a04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278862 3' similar to TR:O96783 O96783 STAUEN PROTEIN.;
8167	20861	33993	1.19	0.0E+00	A1885671.1	EST_HUMAN	wf60b10.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2426275 3' similar to
8180	20874	34008	1.07	0.0E+00	BE563650.1	EST_HUMAN	SW:COGT_HUMAN P50281 MATRIX METALLOPROTEINASE-14 PRECURSOR;
8180	20874	34010	1.07	0.0E+00	BE563650.1	EST_HUMAN	601334790F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3888655 5'
8189	20883	34020	1.63	0.0E+00	11427235	NT	601334790F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3888655 5'
8189	20883	34021	1.63	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
							Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8191	20885	34023	3.2	0.0E+00	AA403192.1	EST_HUMAN	z96f02.l1 Soares fetal_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.;
8191	20885	34024	3.2	0.0E+00	AA403192.1	EST_HUMAN	z96f02.l1 Soares fetal_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.;
8231	20926		4.63	0.0E+00	AA398511.1	EST_HUMAN	z73a08.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:727958 3' similar to gb:S85655 PROHIBITIN (HUMAN);
8240	20934	34071	0.56	0.0E+00	BE837593.1	EST_HUMAN	RC2-FN0084-120600-013-h07 FN0084 Homo sapiens cDNA
8241	20935	34072	1.17	0.0E+00	AW384874.1	EST_HUMAN	QV3-DT0045-221299-046-c07 DT0045 Homo sapiens cDNA
8241	20935	34073	1.17	0.0E+00	AW384874.1	EST_HUMAN	QV3-DT0045-221299-046-c07 DT0045 Homo sapiens cDNA
8260	20954	34092	1.88	0.0E+00	BE612596.1	EST_HUMAN	601452412F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856179 5'
8260	20954	34093	1.88	0.0E+00	BE612596.1	EST_HUMAN	601452412F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856179 5'
8275	20969	34110	1.52	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8275	20969	34111	1.52	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST-E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8288	20980	34120	1.3	0.0E+00	A884477.1	EST_HUMAN	Wt33et11.x1 NCL_CGAP_U4 Homo sapiens cDNA clone IMAGE:2437724 3' similar to TR:O75457 O75457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA ;
8283	20987	34126	1.27	0.0E+00	AA502294.1	EST_HUMAN	ne25d10.a1 NCL_CGAP_Cc3 Homo sapiens cDNA clone IMAGE:882269 3' similar to TR:G1138434
8298	20992		0.59	0.0E+00	11416789	NT	G1138434 KIAA0187 PROTEIN ;
8305	20999	34137	1.02	0.0E+00	A1680780.1	EST_HUMAN	Homo sapiens probocardin beta 3 (PCDH3), mRNA
8308	21002		1.84	0.0E+00	BE890787.1	EST_HUMAN	fa04f11.x1 Soares_pregnant_uterus_Nb4fpu Homo sapiens cDNA clone IMAGE:2043117 3'
8334	21027	34163	0.72	0.0E+00	AW245765.1	EST_HUMAN	601431238F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916669 5'
8334	21027	34164	0.72	0.0E+00	AW245765.1	EST_HUMAN	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8335	21028	34165	2.24	0.0E+00		NT	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8335	21028	34166	2.24	0.0E+00	4758885	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
8339	21032	34169	0.59	0.0E+00	U88084.1	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
8339	21032	34170	0.59	0.0E+00	U88084.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8404	21097	34233	0.88	0.0E+00	A1251780.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8409	21102	34239	2.83	0.0E+00	X98922.1	NT	Homo sapiens NESP55, GNAS1 antisense (partial) and X1alphas (partial) genes
8409	21102	34240	2.83	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8409	21102	34241	2.83	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8424	21117	34255	0.88	0.0E+00	U82979.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8465	21157	34300	0.88	0.0E+00	AF022655.1	NT	Human immunoglobulin-like transcript-3 mRNA, complete cds
8466	21157	34301	0.88	0.0E+00	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8468	21160	34303	2.28	0.0E+00	AU131671.1	EST_HUMAN	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8483	21175	34320	0.65	0.0E+00	11426572	NT	AU131671 NT2RP3 Homo sapiens cDNA clone NT2RP3003018 5'
8487	21179		1.92	0.0E+00	AW513513.1	EST_HUMAN	Homo sapiens immunoglobulin superfamily, member 2 (IGSF2), mRNA
8489	21181	34323	14.55	0.0E+00	D82650.1	EST_HUMAN	xx46a01.x1 NCL_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2707032 3' similar to gb:M14123_cds4 RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN);
8520	21212	34356	4.04	0.0E+00	BE378495.1	EST_HUMAN	HUM084C02B Clontech human fetal brain polyA+ mRNA (#8535) Homo sapiens cDNA clone GEN-084C02
8526	21218	34360	2.58	0.0E+00	AA410546.1	EST_HUMAN	5'
8528	21220		2.91	0.0E+00	BF313948.1	EST_HUMAN	601236488F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608709 5'
8535	21227	34369	0.52	0.0E+00	11424387	NT	z32a04.1 Soares_ova_1 tumor NthOT Homo sapiens cDNA clone IMAGE:724062 5'
8540	21232	34374	1.46	0.0E+00	AW139673.1	EST_HUMAN	601800571F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129744 5'
8540	21232	34375	1.46	0.0E+00	AW139673.1	EST_HUMAN	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
							UHH-B11-ect-e-12-0-U1.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'
							UHH-B11-ect-e-12-0-U1.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8545	21237		0.49	0.0E+00	AI640190.1	EST_HUMAN	w30b10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2288578 3' similar to TR-O15044
8564	21266	34383	0.76	0.0E+00	BF377897.1	EST_HUMAN	O15044 KIAA0335 ;
8574	21266	34408	0.59	0.0E+00	AL163301.2	NT	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
8580	21272	34410	6.89	0.0E+00	BE260272.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C101
8595	21277	34414	2.51	0.0E+00	BF700165.1	EST_HUMAN	601150051F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3502836 5'
8595	21277	34415	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127684F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4284542 5'
8595	21277	34416	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127684F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4284542 5'
8595	21277	34416	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127684F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4284542 5'
8600	21282	34434	0.53	0.0E+00	AI458722.1	EST_HUMAN	602127684F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4284542 5'
8626	21318	34460	0.86	0.0E+00	AL448770.1	EST_HUMAN	601150051F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:2150949 3'
8631	21323	34484	7.75	0.0E+00	AA982527.1	EST_HUMAN	AL448770 Homo sapiens fetal brain (Stawicki GS) Homo sapiens cDNA
8637	21329	34472	3.09	0.0E+00	10947037	NT	cr60g02.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1602194 3' similar to gb:MS6072 60S
8637	21329	34473	3.09	0.0E+00	10947037	NT	RIBOSOMAL PROTEIN L7A (HUMAN);
8660	21352	34489	1.3	0.0E+00	Y11107.3	NT	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8662	21354	34501	1.82	0.0E+00	BE278917.1	EST_HUMAN	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8672	21364		1.91	0.0E+00	AV718377.1	EST_HUMAN	Homo sapiens ITGB4 gene for integrin beta 4 subunit, exons 3-41
8678	21371	34516	3.33	0.0E+00	AW337277.1	EST_HUMAN	601156330F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139734 5'
8685	21377	34521	1.12	0.0E+00	AU124051	EST_HUMAN	AV718377 FHTB Homo sapiens cDNA clone FHTBAAF11 5'
8761	21453	34601	1.05	0.0E+00	AU140704.1	EST_HUMAN	pw73g07.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2833844 3' similar to gb:X53587
8771	21463	34610	0.86	0.0E+00	AB007823.1	NT	INTEGRIN BETA-4 SUBUNIT PRECURSOR (HUMAN);
8776	21468	34614	0.54	0.0E+00	R17132.1	EST_HUMAN	AU124051 NT2RM2 Homo sapiens cDNA clone NT2RM2001576 5'
8776	21468	34615	0.54	0.0E+00	R17132.1	EST_HUMAN	AU140704 PLAGE4 Homo sapiens cDNA clone PLAGE4000089 5'
8780	21472	34617	4.43	0.0E+00	AW592233.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
8780	21472	34618	4.43	0.0E+00	AW592233.1	EST_HUMAN	yg08e09.t1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:31674 5'
8815	21507	34652	0.47	0.0E+00	AU128804	EST_HUMAN	yg08e09.t1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:31674 5'
8827	21519	34684	1.04	0.0E+00	AV714764.1	EST_HUMAN	hf48a08.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2835098 3'
8843	21535	34678	2.79	0.0E+00	ALD40428.1	EST_HUMAN	hf48a08.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2835098 3'
8843	21535	34680	2.79	0.0E+00	ALD40428.1	EST_HUMAN	hf48a08.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2835098 3'
8849	21540	34686	1.17	0.0E+00	AF133901.1	NT	AU128804 NT2RP2 Homo sapiens cDNA clone NT2RP2004245 5'
8851	21542	34688	2.03	0.0E+00	AB040945.1	NT	AV714764 DCB Homo sapiens cDNA clone DCBAUA08 5'
8858	21549	34686	0.65	0.0E+00	BF675505.1	EST_HUMAN	AV714764 DCB Homo sapiens cDNA clone DCBAUA08 5'
							DKFZp434C1814_s1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434C1814 3'
							DKFZp434C1814_s1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434C1814 3'
							Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
							Homo sapiens mRNA for KIAA1512 protein, partial cds
							602138483F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274708 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8860	21551		0.8	0.0E+00	BF058289.1	EST_HUMAN	7k28b03.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3478892 3' similar to TR:O38448 O38448 S GAG.:
8869	21590	34720	3.97	0.0E+00	11422867	NT	Homo sapiens tumor protein p73 (TP73), mRNA
8898	21589	34729	1.19	0.0E+00	K01241.1	NT	Human Ig rearranged H-chain epsilon-3 pseudogene, constant region
8906	21596	34737	4.27	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
8906	21596	34738	4.27	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
8910	21601	34744	1.79	0.0E+00	AV680739.1	EST_HUMAN	AV680739 GLC Homo sapiens cDNA clone GLCGK12 3'
8916	21607	34760	2.88	0.0E+00	7706638	NT	Homo sapiens polyomavirus (PKDL), mRNA
8921	21612	34765	0.5	0.0E+00	BE708328.1	EST_HUMAN	Homo sapiens polyomavirus (PKDL), mRNA
8922	21613	34768	0.73	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1251 protein, partial cds
8922	21613	34767	0.73	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1251 protein, partial cds
8934	21625		0.91	0.0E+00	H73937.1	EST_HUMAN	Homo sapiens mRNA for KIAA1251 protein, partial cds
8944	21639	34779	4.57	0.0E+00	BE315402.1	EST_HUMAN	y03h08.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:232767 5'
8944	21635	34780	4.57	0.0E+00	BE315402.1	EST_HUMAN	601141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
8954	21645	34795	0.48	0.0E+00	BE612721.1	EST_HUMAN	601141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
8954	21645	34796	0.48	0.0E+00	BE612721.1	EST_HUMAN	601452582F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3856100 5'
8957	21648		0.45	0.0E+00	M89886.1	NT	601452582F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3856100 5'
8959	21660	34800	3.68	0.0E+00	X14768.1	NT	Human polymorphic loci in Xq28
8960	21670	34820	2.03	0.0E+00	A1091395.1	EST_HUMAN	Human mRNA for GABA-A receptor, alpha 1 subunit
8965	21675	34824	1.95	0.0E+00	A954607.1	EST_HUMAN	en28e04.x1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1700094 3'
8969	21679	34828	4.65	0.0E+00	8256696	NT	wq34e12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2473150 3' similar to SW:MG83_HUMAN
9000	21690	34840	1.42	0.0E+00	AW958311.1	EST_HUMAN	O15480 MELANOMA-ASSOCIATED ANTIGEN B3 :
9011	21701	34851	2.48	0.0E+00	8635487	EST_HUMAN	Homo sapiens proteoderm alpha 8 (PCDH8), mRNA
9026	21716	34869	1.53	0.0E+00	AU142982.1	EST_HUMAN	EST370381 MAGE resequences, MAGE Homo sapiens cDNA
9042	21732	34887	1.76	0.0E+00	11436896	NT	Human endogenous retrovirus, complete genome
9043	21733		1.18	0.0E+00	BE410768.1	EST_HUMAN	Homo sapiens MAP-kinase activating death domain (MADD), mRNA
9058	21745	34904	1.83	0.0E+00	BF002024.1	EST_HUMAN	Homo sapiens MAP-kinase activating death domain (MADD), mRNA
9070	21759	34920	1.1	0.0E+00	AB011150.1	NT	7g97h12.x1 NCI_CGAP_C016 Homo sapiens cDNA clone IMAGE:3636163 5'
9071	21760	34921	7.72	0.0E+00	BE794823.1	EST_HUMAN	Q8UJH82 HYPOTHETICAL 42.6 KD PROTEIN.:
9075	21764	34926	0.99	0.0E+00	BE810282.1	EST_HUMAN	Homo sapiens mRNA for KIAA0578 protein, partial cds
9075	21764	34927	0.99	0.0E+00	BE810282.1	EST_HUMAN	Homo sapiens mRNA for KIAA0578 protein, partial cds
9078	21767	34930	2.53	0.0E+00	AU136228.1	EST_HUMAN	601588294F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943463 5'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9083	21772	34935	1.27	0.0E+00	BE883943.1	EST_HUMAN	601610247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911888 5'
9083	21772	34936	1.27	0.0E+00	BE883943.1	EST_HUMAN	601610247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911888 5'
9102	21790	34953	0.62	0.0E+00	AB011166.1	NT	Homo sapiens mRNA for KIAA0504 protein, partial cds
9106	21794	34957	1.4	0.0E+00	AA344601.1	EST_HUMAN	EST50505 Gall bladder 1 Homo sapiens cDNA 5' end
9106	21794	34958	1.4	0.0E+00	AA344601.1	EST_HUMAN	EST50505 Gall bladder 1 Homo sapiens cDNA 5' end
9164	21834	34968	1.13	0.0E+00	AW673469.1	EST_HUMAN	KIAA0522 PROTEIN ;
9164	21834	34969	1.13	0.0E+00	AW673469.1	EST_HUMAN	ba34d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800367 5' similar to TR:O60275 O60275
9198	21867	35031	1.62	0.0E+00	BE207063.1	EST_HUMAN	ba09f05.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bcl-xL mRNA, complete cds (MOUSE);
9198	21867	35032	1.62	0.0E+00	BE207063.1	EST_HUMAN	ba09f05.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bcl-xL mRNA, complete cds (MOUSE);
9209	22068	35260	1.61	0.0E+00	BF348013.1	EST_HUMAN	602023150F1 NC1_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4158300 5'
9244	21823	35093	2.77	0.0E+00	BE712515.1	EST_HUMAN	QV2-HT0698-250700-282-b08 HT0698 Homo sapiens cDNA
9277	22031	35201	0.88	0.0E+00	BF034377.1	EST_HUMAN	601455116F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3858035 5'
9277	22031	35202	0.88	0.0E+00	BF034377.1	EST_HUMAN	601455116F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3858035 5'
9283	22037	35209	0.5	0.0E+00	A1806351.1	EST_HUMAN	RC-BT108-040399-032 BT108 Homo sapiens cDNA
9286	22040	35211	0.91	0.0E+00	5803069	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9286	22040	35212	0.91	0.0E+00	5803069	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9286	21863	35137	1.5	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L0120 5'
9331	21998	35171	1.28	0.0E+00	A088043.1	EST_HUMAN	ow60h01.x1 Soares_NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:4138086 5'
9338	20409	33524	0.72	0.0E+00	BF309962.1	EST_HUMAN	TR:Q14677 Q14677 KIAA0171 PROTEIN ;
9340	20411	33527	2.51	0.0E+00	11560151	NT	601892245F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138086 5'
9340	20411	33528	2.51	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9342	20413	33531	9.86	0.0E+00	A1290809.1	EST_HUMAN	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9342	20413	33532	9.86	0.0E+00	A1290809.1	EST_HUMAN	qm03a06.x1 NC1_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881288 3' similar to SW:RL2B_HUMAN
9343	20414	33533	1.99	0.0E+00	AW953836.1	EST_HUMAN	P28316 60S RIBOSOMAL PROTEIN L23A ;
9370	21945	35117	3.07	0.0E+00	AF153466.1	NT	P28316 60S RIBOSOMAL PROTEIN L23A ;
							EST366026 MAGE resequences, MAGC Homo sapiens cDNA
							Homo sapiens polycystic kidney disease 2-like protein (PKD2L) gene, exon 8

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8373	21948	35121	0.88	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
8373	21948	35122	0.88	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
8382	22044		7.32	0.0E+00	BE255829.1	EST_HUMAN	601108942F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350722 5'
8385	22047	35219	1.09	0.0E+00	BE781382.1	EST_HUMAN	601468828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
8385	22047	35220	1.09	0.0E+00	BE781382.1	EST_HUMAN	601468828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
8387	22049	35221	12.62	0.0E+00	AW163779.1	EST_HUMAN	aa86c04.y1 Schmeidler fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783142 5' similar to gb:M36072
8409	22071	35243	2.88	0.0E+00	BE263191.1	EST_HUMAN	601145054F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160477 5'
8427	22105	35278	4.29	0.0E+00	CO8158.1	EST_HUMAN	CO8158 Human pancreatic islet Homo sapiens cDNA clone hbc5605
8427	22105	35279	4.29	0.0E+00	CO8158.1	EST_HUMAN	CO8158 Human pancreatic islet Homo sapiens cDNA clone hbc5605
8429	22107	35282	2.63	0.0E+00	BE748218.1	EST_HUMAN	601578683F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3927548 5'
8439	22117	35282	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
8439	22117	35283	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
8439	22117	35294	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
8459	22009	35179	1.41	0.0E+00	BE000549.1	EST_HUMAN	601673425F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956238 5'
8475	22128	35307	1.01	0.0E+00	AV701829.1	EST_HUMAN	AV701829 ADB Homo sapiens cDNA clone ADB87H01 5'
8489	22142	35321	2.62	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2a (KRT2E) gene, complete cds
8489	22142	35322	2.62	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2a (KRT2E) gene, complete cds
8522	22176	35359	0.94	0.0E+00	BE082677.1	EST_HUMAN	RC2-BT0642-130300-017-g01 BT0642 Homo sapiens cDNA
8541	22184	35379	1.74	0.0E+00	AW500283.1	EST_HUMAN	UHF-BN0-akg-b-12-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
8541	22184	35380	1.74	0.0E+00	AW500283.1	EST_HUMAN	UHF-BN0-akg-b-12-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
8550	22203	35388	1.45	0.0E+00	AF028308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
8550	22203	35387	1.45	0.0E+00	AF028308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
8552	22205	35388	0.69	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
8552	22205	35389	0.69	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
8561	22214	35400	0.54	0.0E+00	W56829.1	EST_HUMAN	zdf6e11.1 Soares fetal heart_NH19W Homo sapiens cDNA clone IMAGE:340844 5'
8561	22214	35401	0.54	0.0E+00	W56829.1	EST_HUMAN	zdf6e11.1 Soares fetal heart_NH19W Homo sapiens cDNA clone IMAGE:340844 5'
8572	22225	35410	1.83	0.0E+00	AB035336.1	NT	Homo sapiens mRNA for neuronin I-alpha protein, complete cds
8576	22229		0.8	0.0E+00	AI124780.1	EST_HUMAN	arn56a11.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539548 3'
8576	22231	35415	3.59	0.0E+00	AW500528.1	EST_HUMAN	UHF-BN0-akg-b-07-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077384 5'
8624	22277	35468	1.53	0.0E+00	AF008608.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9652	22304	35499	2.23	0.0E+00	S78468.1	NT	AIGF=androgen-induced growth factor AIGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9652	22304	35500	2.23	0.0E+00	S78468.1	NT	AIGF=androgen-induced growth factor AIGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9655	22307	35505	2.93	0.0E+00	BE593320.1	EST_HUMAN	601834803F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3988680 5'
9674	22326	35521	1.94	0.0E+00	AW363135.1	EST_HUMAN	CM2-CT0311-30189-043-h11 CT0311 Homo sapiens cDNA
9692	22343	35537	0.46	0.0E+00	11436432	NT	Homo sapiens mitrimerin (MMRN), mRNA
9693	22344	35538	0.51	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITM domains), member 3 (LILRB3), mRNA
9702	22353	35548	0.54	0.0E+00	BE206710.1	EST_HUMAN	b628c01.x1 NIH_MGC_5 Homo sapiens cDNA clone IMAGE:2864000 3'
9719	22370	35568	2.57	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9719	22370	35569	2.57	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9728	22379	35581	0.77	0.0E+00	AW500336.1	EST_HUMAN	UI-HF-BP0p-air-4-05-0-U1.r1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072867 5'
9733	22384	35586	9.08	0.0E+00	BE740490.1	EST_HUMAN	601595558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948383 5'
9733	22384	35587	9.08	0.0E+00	BE740490.1	EST_HUMAN	601595558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948383 5'
9734	22385	35588	0.48	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
9734	22385	35589	0.48	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
9747	22398	35603	1.73	0.0E+00	7862067	NT	Homo sapiens KIAA0345 gene product (KIAA0345), mRNA
9765	22416	35623	1.59	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L0120 5'
9770	22421	35628	1.53	0.0E+00	AL041084.2	EST_HUMAN	DKFZp434B2416_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B2416 5'
9780	22431	35636	2.54	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9781	22432	35637	2.37	0.0E+00	AF152308.1	NT	Homo sapiens protocadherin alpha 12 (PCDH-alpha12) mRNA, complete cds
9808	22459	35684	2.63	0.0E+00	AF009220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
9808	22459	35685	2.63	0.0E+00	AF009220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
9824	22475	35678	1.81	0.0E+00	BF082898.1	EST_HUMAN	MR4-TN0114-110900-101-e04 TN0114 Homo sapiens cDNA
9854	22504	35704	2.41	0.0E+00	BE280793.1	EST_HUMAN	601155227F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138798 5'
9864	22514	35710	0.86	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
9864	22514	35711	0.86	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
9873	22523	35717	3.03	0.0E+00	AW236268.1	EST_HUMAN	xit72b01.x1 NCJ_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2868877 3' similar to gb:U02162_cds1 L-LACTATE DEHYDROGENASE M CHAIN (HUMAN);
9874	22524	35718	1.06	0.0E+00	AA341305.1	EST_HUMAN	EST46740 Fetal kidney II Homo sapiens cDNA 5' end
9904	22553	35748	0.97	0.0E+00	AW964113.1	EST_HUMAN	EST376186 MAGI2 resequencing, MAGI2 Homo sapiens cDNA
9915	22564	35769	7.01	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y78AA1 Homo sapiens cDNA clone Y78AA1002307 5'
9915	22564	35760	7.01	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y78AA1 Homo sapiens cDNA clone Y78AA1002307 5'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9818	22567	35763	2.98	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIR2C gene, exons 2, 3, and 4
9821	22569	36765	2.75	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
9821	22569	39766	2.75	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
9856	22604	35809	3	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
9856	22604	35810	3	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
9872	22620	35824	2.08	0.0E+00	AJ295844.1	NT	Homo sapiens partial RANBP7 gene for RANBP7/importin7 and partial ZNF143 gene
9872	22620	35825	2.08	0.0E+00	AJ295844.1	NT	Homo sapiens partial RANBP7 gene for RANBP7/importin7 and partial ZNF143 gene
9877	22625	35832	1.04	0.0E+00	AV695712.1	EST_HUMAN	AV695712 GKC Homo sapiens cDNA clone GKCDXA07 5'
9877	22625	35833	1.04	0.0E+00	AV695712.1	EST_HUMAN	AV695712 GKC Homo sapiens cDNA clone GKCDXA07 5'
9883	22631	35840	0.74	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIR2C gene, exons 2, 3, and 4
9886	22633	35843	3.11	0.0E+00	AA198387.1	EST_HUMAN	z97h11.11 Stratiogene muscle 837209 Homo sapiens cDNA clone IMAGE:628197 5'
10011	22659	35873	1	0.0E+00	AA131248.1	EST_HUMAN	z31f01.1 Scores_pregnant_uterus_Nb1fpu Homo sapiens cDNA clone IMAGE:503545 5'
10011	22659	35874	1	0.0E+00	AA131248.1	EST_HUMAN	z31f01.1 Scores_pregnant_uterus_Nb1fpu Homo sapiens cDNA clone IMAGE:503545 5'
10056	22704	35922	1.44	0.0E+00	AF179308.1	NT	Homo sapiens KIF4 (KIF4) mRNA, complete cds
10101	22749	35964	0.82	0.0E+00	BE880658.1	EST_HUMAN	6014301568F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:38933657 5'
10112	22760	35972	6.22	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10112	22760	35973	6.22	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10117	22765	35977	0.97	0.0E+00	AU127403.1	EST_HUMAN	AU127403 NT2RP2 Homo sapiens cDNA clone NT2RP2001212 5'
10127	22775	35988	0.87	0.0E+00	BE958511.1	EST_HUMAN	601645134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930177 5'
10127	22775	35989	0.87	0.0E+00	BE958511.1	EST_HUMAN	601645134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930177 5'
10144	22782	36007	0.68	0.0E+00	BE897487.1	EST_HUMAN	601432317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917453 5'
10154	22802	36020	0.67	0.0E+00	AA311624.1	EST_HUMAN	EST182353 Jurkat T-cells VI Homo sapiens cDNA 5' and
10155	22803	36021	1.01	0.0E+00	4758827	NT	Homo sapiens neurodin III (NRXN3) mRNA
10166	22814	36032	0.67	0.0E+00	BE891113.1	EST_HUMAN	601432228F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917598 5'
10169	22817	36035	1.13	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10179	22827	36041	1.72	0.0E+00	AB029290.1	NT	Homo sapiens mRNA for actin binding protein ABP620, complete cds
10180	22828	36042	0.46	0.0E+00	BE304522.1	EST_HUMAN	601105456F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2867918 5'
10180	22828	36043	0.46	0.0E+00	BE304522.1	EST_HUMAN	601105456F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2867918 5'
10187	22835	36048	6.02	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10187	22835	36049	6.02	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10193	22841	36056	1.06	0.0E+00	AA704457.1	EST_HUMAN	z19f08.s1 Scores_fetal_liver_spleen_1NRLS_S1 Homo sapiens cDNA clone IMAGE:450707 3' similar to gb:U14123_cds1 RETROVIRUS-RELATED GAG POLYPROTEIN (HUMAN);
10195	22843	36057	0.74	0.0E+00	M22821.1	NT	Human beta 1.4-galactosyl-transferase mRNA, complete cds
10197	22845	36060	5.45	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCI CGAP_Bim64 Homo sapiens cDNA clone IMAGE:4184939 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10197	22845	36081	5.45	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCI_CGAP_Bim64 Homo sapiens cDNA clone IMAGE:4184839 5'
10222	22870	36082	0.93	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10222	22870	36083	0.93	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10262	22800	36110	0.55	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DC8 Homo sapiens cDNA clone DC8BDDC09 5'
10262	22800	36111	0.55	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DC8 Homo sapiens cDNA clone DC8BDDC09 5'
10262	22830	36143	2.38	0.0E+00	AI631818.1	EST_HUMAN	wa38e03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR-Q61204
10262	22830	36144	2.38	0.0E+00	AI631818.1	EST_HUMAN	wa38e03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR-Q61204
10288	22836	36149	0.49	0.0E+00	11545730	NT	Q61204 NOTCH2-LIKE:
10298	22845	36159	1.52	0.0E+00	T03078.1	EST_HUMAN	Homo sapiens Gligactin (GAN), mRNA
10323	22870	36190	0.84	0.0E+00	AU122429.1	EST_HUMAN	FB23A4 Fetal brain, Strabagene Homo sapiens cDNA clone FB23A4 3' and
10329	22876	36198	0.46	0.0E+00	6005921	NT	AU122429 MAMMA1 Homo sapiens cDNA clone MAMMA1002368 5'
10348	22895	36214	2.5	0.0E+00	BF436218.1	EST_HUMAN	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
10349	22898		0.97	0.0E+00	AV654765.1	EST_HUMAN	nab45e12.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3266271 3'
10368	23015	36231	2.75	0.0E+00	AW517980.1	EST_HUMAN	AV654765 GLC Homo sapiens cDNA clone GLCZO07 3'
10374	23020	36236	8.82	0.0E+00	BE548213.1	EST_HUMAN	xu74b01.x1 NCI_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2807401 3' similar to gb-M69068 MOESIN (HUMAN):
10389	23035	36251	0.75	0.0E+00	11436005	NT	601078764F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3464703 5'
10414	23060	36279	2.78	0.0E+00	BE781742.1	EST_HUMAN	Homo sapiens hypothetical protein DKFp761P1010 (DKFp761P1010), mRNA
10435	23081	36307	1.9	0.0E+00	BE082720.1	EST_HUMAN	601467418F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870700 5'
10435	23081	36308	1.9	0.0E+00	BE082720.1	EST_HUMAN	RC2-8T0842-150200-012-d03 BT0842 Homo sapiens cDNA
10442	23088	36316	0.68	0.0E+00	Y08032.1	NT	RC2-8T0842-150200-012-d03 BT0842 Homo sapiens cDNA
10448	23094	36325	0.86	0.0E+00	AI656890.1	EST_HUMAN	Human endogenous retrovirus-K, LTR U5 and gag gene
10454	23100	36331	1.33	0.0E+00	BE743215.1	EST_HUMAN	tt54e07.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2244612 3'
10454	23100	36332	1.33	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
10459	23106	36335	2.49	0.0E+00	BE617655.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
10459	23105	36336	2.49	0.0E+00	BE617655.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845856 3'
10481	23127	36355	0.57	0.0E+00	H39805.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845856 3'
10508	23154	36380	1.01	0.0E+00	D87875.1	NT	yp01e10.r1 Soares breast 3NBH8at Homo sapiens cDNA clone IMAGE:186138 5'
10510	23158	36382	0.45	0.0E+00	AF081384.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10519	23165	36392	1.02	0.0E+00	BE172254.1	EST_HUMAN	Synthetic construct CD30L ligand-ecdysin A fusion protein (CD30L-ETA fusion) mRNA, partial cds
10519	23165	36393	1.02	0.0E+00	BE172254.1	EST_HUMAN	MRO-HT0559-270300-008-a12 HT0559 Homo sapiens cDNA
10532	23228	36463	2.78	0.0E+00	AV711076.1	EST_HUMAN	MRO-HT0559-270300-009-a12 HT0559 Homo sapiens cDNA
							AV711076 Cu Homo sapiens cDNA clone CuAAKG05 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10532	23229	36484	2.76	0.0E+00	AV711075.1	EST_HUMAN	AV711075 Gu Homo sapiens cDNA clone CUAAG05 5'
10534	23231		2.13	0.0E+00	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-403 ST0197 Homo sapiens cDNA
10542	23238	36472	7.02	0.0E+00	AW903503.1	EST_HUMAN	EST376638 IMAGE:2306874 3' similar to contains element
10555	23251	36487	3.19	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10555	23251	36488	3.19	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10559	23255	36492	2.09	0.0E+00	AW057621.1	EST_HUMAN	W691709.x1 Soares_NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2553065 3' similar to
10597	23282	36499	1.6	0.0E+00	BE243270.1	EST_HUMAN	TR-Q60568 Q60568 VDX; TCAAP3D0917 Pediatric acute myelogenous leukemia cell (FAB M1) Bayle-HGSC project-TCAA Homo sapiens cDNA clone TCAAP0917
10598	23283	36500	2.85	0.0E+00	AI652239.1	EST_HUMAN	W628a12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2306874 3' similar to contains element
10598	23283	36501	2.85	0.0E+00	AI652239.1	EST_HUMAN	MSR1 MSR1 repetitive element;
10573	23288	36506	1.54	0.0E+00	BI306842.1	EST_HUMAN	W628a12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2306874 3' similar to contains element
10590	23275	36512	5.06	0.0E+00	11646911	NT	MSR1 MSR1 repetitive element;
10590	23275	36513	5.06	0.0E+00	11646911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
10598	23290	36528	1.98	0.0E+00	AW404785.1	EST_HUMAN	601868704F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122849 5'
10600	23294	36533	3.17	0.0E+00	11424829	NT	Homo sapiens NOD2 protein (NOD2), mRNA
10601	23295	36534	7.47	0.0E+00	4504536	NT	UHF-BL0-ecm-d-04-UJ.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3056383 5'
10601	23295	36535	7.47	0.0E+00	4504536	NT	Homo sapiens hypothetical protein FLJ20079 (FLJ20079), mRNA
10602	23296	36536	3.68	0.0E+00	AI091827.1	EST_HUMAN	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
10605	23299	36540	4.48	0.0E+00	BE882109.1	EST_HUMAN	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
10609	23303	36542	8.24	0.0E+00	BE891630.1	EST_HUMAN	W632603.x1 Soares_Dieckgrafe_cobn_NHCD Homo sapiens cDNA clone IMAGE:2521715 3'
10612	23306	36544	1.98	0.0E+00	8923939	NT	601505204F2 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3606865 5'
10612	23306	36545	1.66	0.0E+00	8923939	NT	601434522F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918636 5'
10619	23312	36551	1.4	0.0E+00	AB014608.1	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10619	23312	36552	1.4	0.0E+00	AB014608.1	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10628	23321	36559	1.31	0.0E+00	BE903304.1	EST_HUMAN	Homo sapiens mRNA for KIAA0708 protein, partial cds
10631	18484	31403	1.65	0.0E+00	AA195905.1	EST_HUMAN	Homo sapiens mRNA for KIAA0708 protein, partial cds
10652	23343	36581	5.53	0.0E+00	BE793498.1	EST_HUMAN	601674332F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3567343 5'
10660	23351	36588	1.78	0.0E+00	BE729706.1	EST_HUMAN	601588829F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3943015 5'
10660	23351	36589	1.78	0.0E+00	BE729706.1	EST_HUMAN	601588829F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3943015 5'
10661	23352	36590	33.89	0.0E+00	AV727362.1	EST_HUMAN	601562884F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832575 5'
							AV727362 HTC Homo sapiens cDNA clone HTCAQH06 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10661	23352	36501	33.99	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTC Homo sapiens cDNA clone HTCAQH06 5'
10674	23365	36808	9.89	0.0E+00	AW518055.1	EST_HUMAN	xy04g10.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2852228 3' similar to gb:M60854 40S RIBOSOMAL PROTEIN S18 (HUMAN);
10680	23371	36813	3.18	0.0E+00	AU135741.1	EST_HUMAN	AU135741 PLACE1 Homo sapiens cDNA clone PLACE1002784 5'
10686	23377	36817	3.41	0.0E+00	AW583333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10686	23377	36818	3.41	0.0E+00	AW583333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10686	23377	36819	3.41	0.0E+00	AW583333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10688	23379	36820	1.89	0.0E+00	Z34897.1	NT	H.sapiens mRNA for H1 histamine receptor
10689	23380	36821	2.97	0.0E+00	F13069.1	EST_HUMAN	HSC3IQ031 normalized infant brain cDNA Homo sapiens cDNA clone o-3ic03
10700	23391	36828	1.79	0.0E+00	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
10706	23396	36834	1.33	0.0E+00	4758281	NT	Homo sapiens EphA7 (EPHA7) mRNA
10706	23396	36835	1.33	0.0E+00	4758281	NT	Homo sapiens EphA7 (EPHA7) mRNA
10718	23407	36848	2.13	0.0E+00	AW338084.1	EST_HUMAN	xw6601.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2832885 3' similar to gb:X17115 IG MU CHAIN C REGION (HUMAN);
10719	23408	36849	4.62	0.0E+00	AW451230.1	EST_HUMAN	UH-HB13-ali-e-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736649 3'
10719	23408	36850	4.62	0.0E+00	AW451230.1	EST_HUMAN	UH-HB13-ali-e-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736649 3'
10721	13021		11.67	0.0E+00	4506632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
10723	23411	36852	2.63	0.0E+00	AB014567.1	NT	Homo sapiens mRNA for KIAA0687 protein, partial cds
10738	23425	36870	1.98	0.0E+00	BE298449.1	EST_HUMAN	601119248F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029219 5'
10754	23439	36883	2.04	0.0E+00	AB011117.1	NT	Homo sapiens mRNA for KIAA0545 protein, partial cds
10763	23447		1.71	0.0E+00	AU124106.1	EST_HUMAN	AU124106 NT2RM2 Homo sapiens cDNA clone NT2RM2001675 5'
10771	23454	36897	1.45	0.0E+00	AB028040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10771	23454	36898	1.45	0.0E+00	AB028040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10776	23459	36702	4.04	0.0E+00	BE792155.1	EST_HUMAN	601582046F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3936539 5'
10777	23460		59.14	0.0E+00	BF684061.1	EST_HUMAN	602141405F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302432 5'
10778	23461	36703	1.3	0.0E+00	BE298288.1	EST_HUMAN	601186342F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3644259 5'
10781	23464	36706	5.6	0.0E+00	AU1118386.1	EST_HUMAN	AU118386 HEMBA1 Homo sapiens cDNA clone HEMBA1003488 5'
10786	23469	36710	6.53	0.0E+00	AH149809.1	EST_HUMAN	qf43c03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
10788	23469	36711	6.53	0.0E+00	AH149809.1	EST_HUMAN	qf43c03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
10787	23470	36712	3.04	0.0E+00	AW391837.1	EST_HUMAN	QV4-ST0234-121189-032-b06 ST0234 Homo sapiens cDNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10768	23481	36721	4.39	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10768	23481	36722	4.39	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10807	23490	36726	9.57	0.0E+00	11424728	NT	Homo sapiens Insulin receptor (INSR), mRNA
10814	23497	36733	1.42	0.0E+00	AW804516.1	EST_HUMAN	QV0-UM0083-170400-191-d08 UM0083 Homo sapiens cDNA
10814	23497	36734	1.42	0.0E+00	AW804516.1	EST_HUMAN	QV0-UM0083-170400-191-d06 UM0083 Homo sapiens cDNA
10815	23498	36735	1.6	0.0E+00	BF340308.1	EST_HUMAN	602037014F1 NCI_CGAP_Bn64 Homo sapiens cDNA clone IMAGE:4184979 5'
10817	23500	36738	52.94	0.0E+00	BE261209.1	EST_HUMAN	601148357F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3163310 5'
10821	23504	36743	2.37	0.0E+00	AB028040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10824	23507	36746	1.69	0.0E+00	AB007932.1	NT	Homo sapiens mRNA for KIAA0463 protein, partial cds
10828	23510	36750	3.47	0.0E+00	U50326.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 15-17
10832	23514	36755	1.55	0.0E+00	BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-07 FT0134 Homo sapiens cDNA
10832	23514	36756	1.55	0.0E+00	BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-07 FT0134 Homo sapiens cDNA
10838	23520	36762	1.47	0.0E+00	W21826.1	EST_HUMAN	57E10 Human retina cDNA Tsp5091-cleaved sublibrary Homo sapiens cDNA not directional
10854	23534	36779	136.91	0.0E+00	AA740782.1	EST_HUMAN	cd32607.s1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1326412 3' similar to contains element MSR1 repetitive element:
10857	23537	36783	2.05	0.0E+00	AW46822.1	EST_HUMAN	he04h04.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2672759 3'
10863	23543	36790	2.91	0.0E+00	AF252303.1	NT	Homo sapiens signaling lymphocytic activation molecule (SLAM) gene, exon 2
10879	23559	36809	7.34	0.0E+00	Q50388.1	EST_HUMAN	C05089 Human heart cDNA (Y Nakamura) Homo sapiens cDNA clone 3NH4817
10886	23568	36814	2.31	0.0E+00	AA746375.1	EST_HUMAN	ce58h01.t1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1308009 5'
10886	23568	36815	2.31	0.0E+00	AA746375.1	EST_HUMAN	ce58h01.t1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1308009 5'
10895	23575	36825	3.74	0.0E+00	M78448.1	EST_HUMAN	EST00598 Fetal brain, Striatum (cat#336208) Homo sapiens cDNA clone HFBCC28
10895	23575	36826	3.74	0.0E+00	M78448.1	EST_HUMAN	EST00598 Fetal brain, Striatum (cat#336208) Homo sapiens cDNA clone HFBCC28
10898	23578	36827	6.82	0.0E+00	AL157608.1	EST_HUMAN	DKFZp781J2116 t1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp781J2116 5'
10910	23590	36836	5.81	0.0E+00	AU116988.1	EST_HUMAN	AU116988 HEMBA1 Homo sapiens cDNA clone HEMBA1000424 5'
10924	23604	36853	1.64	0.0E+00	AV683656.1	EST_HUMAN	AV683656 GKC Homo sapiens cDNA clone GKC00003 5'
10932	23612	36862	2.09	0.0E+00	BF368553.1	EST_HUMAN	IL3-NT0104-200500-143-A07 NT0104 Homo sapiens cDNA
10955	18399	31311	2.73	0.0E+00	AB035266.1	NT	Homo sapiens mRNA for neuroxin II, complete cds
10955	18399	31312	2.73	0.0E+00	AB035266.1	NT	Homo sapiens mRNA for neuroxin II, complete cds
10960	23638	36887	2.64	0.0E+00	BE182360.1	EST_HUMAN	PM0-HT0845-060500-002-E05 HT0845 Homo sapiens cDNA
10960	23638	36888	2.64	0.0E+00	BE182360.1	EST_HUMAN	PM0-HT0845-060500-002-E06 HT0845 Homo sapiens cDNA
10961	23637	36888	1.4	0.0E+00	AV701152.1	EST_HUMAN	AV701152 ADA Homo sapiens cDNA clone ADAAA008 5'
10980	23655	36908	4.07	0.0E+00	BE896423.1	EST_HUMAN	601438092F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924142 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E- Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10889	23663	36919	1.85	0.0E+00	AW500307.1	EST_HUMAN	UIHF-BN0-ekg-d-02-0-UJ.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
10889	23663	36920	1.85	0.0E+00	AW500307.1	EST_HUMAN	UIHF-BN0-ekg-d-02-0-UJ.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
10892	23666	36923	2.39	0.0E+00	BE018283.1	EST_HUMAN	bb78cd04.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048488 5' similar to gb:Y00345_cds1 POLYADENYLATE-BINDING PROTEIN (HUMAN); gb:X06553 M.musculus mRNA for poly(A) binding protein (MOUSE);
11016	23688	36949	1.77	0.0E+00	BF628907.1	EST_HUMAN	602043377F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181083 5'
11016	23688	36950	1.77	0.0E+00	BF628907.1	EST_HUMAN	602043377F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181083 5'
11016	23688	36951	1.77	0.0E+00	BF628907.1	EST_HUMAN	602043377F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181083 5'
11028	25133	36964	1.27	0.0E+00	AW387788.1	EST_HUMAN	MR4-ST0118-041099-010-A12 ST0118 Homo sapiens cDNA
11028	25133	36965	1.27	0.0E+00	AW387788.1	EST_HUMAN	MR4-ST0118-041099-010-A12 ST0118 Homo sapiens cDNA
11034	23705	36973	1.53	0.0E+00	4758281	NT	Homo sapiens EphA7 (EPHA7) mRNA
11035	23708	36974	8.73	0.0E+00	BE897853.1	EST_HUMAN	60144046F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925403 5'
11037	23708	36977	1.89	0.0E+00	A459545.1	EST_HUMAN	ac86g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11037	23708	36978	1.89	0.0E+00	A459545.1	EST_HUMAN	ac86g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11051	23721	36992	2.76	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434L0120 5'
11083	23763	37028	1.61	0.0E+00	10880982	NT	Homo sapiens gephyrin (GPH), mRNA
11085	23765	37031	3.98	0.0E+00	4758827	NT	Homo sapiens neuradin III (NRXN3) mRNA
11088	23766	37032	2.67	0.0E+00	BF208501.1	EST_HUMAN	601870902F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4101433 5'
11091	23761	37036	12.22	0.0E+00	AW207734.1	EST_HUMAN	UIH-B12-egc-h-01-0-UJ.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724312 3'
11096	23766	37040	4.23	0.0E+00	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11096	23766	37041	4.23	0.0E+00	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11098	23768	37043	2.69	0.0E+00	BE206846.1	EST_HUMAN	bs04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B- 55KDA-ASSOCIATED PROTEIN ;
11098	23768	37044	2.69	0.0E+00	BE206846.1	EST_HUMAN	bs04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B- 55KDA-ASSOCIATED PROTEIN ;
11110	23760	37055	1.9	0.0E+00	11528409	NT	Homo sapiens KIAA0428 gene product (KIAA0428), mRNA
11124	23793	37069	1.52	0.0E+00	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
11127	20052	33133	1.5	0.0E+00	132832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
11131	23769	37074	3.84	0.0E+00	BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-h04 HT0230 Homo sapiens cDNA
11131	23769	37075	3.84	0.0E+00	BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-h04 HT0230 Homo sapiens cDNA
11154	23821	37101	1.98	0.0E+00	AW673469.1	EST_HUMAN	bs54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN ;
11154	23821	37102	1.96	0.0E+00	AW673469.1	EST_HUMAN	bs54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN ;

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11176	23843	37128	6.21	0.0E+00	BF507878.1	EST_HUMAN	UIH-B14-ack-b-10-Q-UJ.s1 NC1 CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085028 3'
11176	23843	37129	6.21	0.0E+00	BF507878.1	EST_HUMAN	UIH-B14-ack-b-10-Q-UJ.s1 NC1 CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085028 3'
11185	23850	37136	1.57	0.0E+00	AU135170.1	EST_HUMAN	AU135170 PLACE1 Homo sapiens cDNA clone PLACE1001381 5'
11188	23854	37140	1.82	0.0E+00	BF576138.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11189	23854	37141	1.82	0.0E+00	BF576138.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11190	23855	37142	1.67	0.0E+00	BF588811.1	EST_HUMAN	RC3-GN0089-190900-011-c06 GN0089 Homo sapiens cDNA
11192	23857	37143	5.5	0.0E+00	BE378401.1	EST_HUMAN	601488828F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3889207 5'
11192	23857	37144	5.5	0.0E+00	BE378401.1	EST_HUMAN	601488828F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3889207 5'
11199	23864	37160	1.94	0.0E+00	D87682.1	NT	Human mRNA for KIAA0241 gene, partial cds
11204	23868		5.95	0.0E+00	BF240538.1	EST_HUMAN	601875630F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4089710 5'
11218	23881	37168	2.04	0.0E+00	AB037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11218	23881	37167	2.04	0.0E+00	AB037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11222	23885	37170	4.17	0.0E+00	11430868	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11222	23885	37171	4.17	0.0E+00	11430868	NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11230	23893	37179	1.8	0.0E+00	AA772837.1	EST_HUMAN	6074904.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:969942 3'
11241	23903	37192	1.62	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11241	23903	37193	1.62	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11244	23906	37198	6.16	0.0E+00	4503544	NT	Homo sapiens eukaryotic translation initiation factor 5A (EIF5A) mRNA
11251	23913	37205	1.36	0.0E+00	BF576287.1	EST_HUMAN	602134132F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4286502 5'
11254	23916	37209	5.84	0.0E+00	AW328173.1	EST_HUMAN	604905.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2847177 5'
11258	23920		71.88	0.0E+00	M55063.1	NT	Human gamma actin-like pseudogene, complete cds
11264	23926	37216	2.93	0.0E+00	BF308898.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
11264	23926	37217	2.93	0.0E+00	BF308898.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
11271	23932	37225	105.67	0.0E+00	BF362462.1	EST_HUMAN	QV2-NN0054-230800-333-e04 NN0054 Homo sapiens cDNA
11291	23952	37249	2.34	0.0E+00	U36284.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11291	23952	37250	2.34	0.0E+00	U36284.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11295	23956		3.03	0.0E+00	BE897051.1	EST_HUMAN	601433603F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3324577 5'
11299	23957		1.73	0.0E+00	4503798	NT	Homo sapiens fyn-related kinase (FRK) mRNA
11310	23969	37271	3.55	0.0E+00	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11313	23972		2.69	0.0E+00	BF207862.1	EST_HUMAN	601861847F1 NIH_MGC_63 Homo sapiens cDNA clone IMAGE:4081715 5'
11314	23973		2.03	0.0E+00	BE257744.1	EST_HUMAN	601116705F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357384 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11327	24018	37321	4.02	0.0E+00	BE206848.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-55KDA-ASSOCIATED PROTEIN.;
11327	24018	37322	4.02	0.0E+00	BE206848.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-55KDA-ASSOCIATED PROTEIN.;
11328	24020	37324	3.88	0.0E+00	AW753028.1	EST_HUMAN	QV0-CT0225-101288-071-406 CT0225 Homo sapiens cDNA
11334	24025		3.06	0.0E+00	AA558707.1	EST_HUMAN	M42c08.s1 NCI_CGAP_P4 Homo sapiens cDNA clone IMAGE:1043342 similar to gb:M65178 ALPHA-ACTININ 1, CYTOSKELETAL ISOFORM (HUMAN);
11335	18000	30623	3.84	0.0E+00	AB34954.1	EST_HUMAN	wp08g08.x1 NCI_CGAP_K1412 Homo sapiens cDNA clone IMAGE:2484094 3'
11336	24026	37330	7.45	0.0E+00	AW327895.1	EST_HUMAN	dr02b08.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2846819 5'
11355	25134	37348	1.89	0.0E+00	AW282776.1	EST_HUMAN	UHH-BW0-aj-d-07-Q-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:2729509 3'
11362	23173	36401	2.2	0.0E+00	4758827	NT	Homo sapiens neurodin III (NRDN3) mRNA
11368	23975	37276	1.73	0.0E+00	BE264058.1	EST_HUMAN	60111303F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354600 5'
11371	23978	37278	1.74	0.0E+00	BE965908.2	EST_HUMAN	601165908R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3885916 3'
11371	23978	37279	1.74	0.0E+00	BE965908.2	EST_HUMAN	601165908R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3885916 3'
11372	23979	37280	4.62	0.0E+00	BE186656.1	EST_HUMAN	IL5-HT0731-020500-077-405 HT0731 Homo sapiens cDNA
11373	23980		1.28	0.0E+00	BF513960.1	EST_HUMAN	UHH-BW1-amy-e-06-Q-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071121 3'
11387	23983	37284	7.81	0.0E+00	AL046540.1	EST_HUMAN	DKFZp434G178.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G178 5'
11387	23983	37285	7.81	0.0E+00	AL046540.1	EST_HUMAN	DKFZp434G178.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G178 5'
11397	24003	37306	5.89	0.0E+00	AJ923116.1	EST_HUMAN	wn83g03.x1 NCI_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2462468 3' similar to gb:S37431 LAMININ RECEPTOR (HUMAN);
11401	24050	37353	3.42	0.0E+00	AA760913.1	EST_HUMAN	nz11c07.s1 NCI_CGAP_GC81 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686
11401	24050	37354	3.42	0.0E+00	AA760913.1	EST_HUMAN	Q13686 ALKB HOMOLOG PROTEIN.;
11406	24055	37360	1.94	0.0E+00	BE910646.1	EST_HUMAN	nz11c07.s1 NCI_CGAP_GC81 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686
11418	23183	36413	7.9	0.0E+00	BE676347.1	EST_HUMAN	Q13686 ALKB HOMOLOG PROTEIN.;
11419	23186	36416	1.79	0.0E+00	BE615686.1	EST_HUMAN	Q13686 ALKB HOMOLOG PROTEIN.;
11419	23186	36417	1.79	0.0E+00	BE615686.1	EST_HUMAN	Q13686 ALKB HOMOLOG PROTEIN.;
11426	23193	36424	1.61	0.0E+00	AV757420.1	EST_HUMAN	772712.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3611144 5'
11457	24061	37367	1.52	0.0E+00	Y18800.1	NT	CHECKPOINT SUPPRESSOR 1.;
11461	24064	37370	10.31	0.0E+00	L39891.1	NT	601279335F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5'
11461	24064	37371	10.31	0.0E+00	L39891.1	NT	601279335F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5'
11476	24077	37367	4.69	0.0E+00	AU138211.1	EST_HUMAN	AV757420 BM Homo sapiens cDNA clone BMFAGH03 5'
							Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
							Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
							Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
							AU138211 PLACE1 Homo sapiens cDNA clone PLACE1008077 5'

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11401	24092	37404	1.92	0.0E+00	BE622317.1	EST_HUMAN	601441086F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916270 5'
11618	24118	37428	1.42	0.0E+00	AF39834.1	EST_HUMAN	trn94c10.55 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165778 3'
11628	24129	37434	13.79	0.0E+00	BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11629	24129	37435	13.79	0.0E+00	BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11639	24139	37447	1.81	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5'
11639	24139	37447	1.81	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5'
11542	24142	37451	2.08	0.0E+00	AW006022.1	EST_HUMAN	w291h01.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2566225 3' similar to WP:F53H10.2
11546	24135	37455	3.49	0.0E+00	BF002333.1	EST_HUMAN	CE11040 ZINC FINGER, C2H2 TYPE 1
11571	24170	37485	2.88	0.0E+00	AW387776.1	EST_HUMAN	7h22b10.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3316699 3' similar to TR:Q13458 Q13458
11671	24170	37488	2.88	0.0E+00	AW387776.1	EST_HUMAN	TRIO.1
11582	24181	37521	2.41	0.0E+00	AW863777.1	EST_HUMAN	MR4-ST0118-281089-012-b03 ST0118 Homo sapiens cDNA
11601	24200	37521	4.76	0.0E+00	11435244	NT	MR4-ST0118-281089-012-b03 ST0118 Homo sapiens cDNA
11601	24200	37521	4.76	0.0E+00	11435244	NT	MR3-SN0010-310300-107-h03 SN0010 Homo sapiens cDNA
11608	24206	37529	5.87	0.0E+00	U36253.1	NT	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11612	24210	37533	2.29	0.0E+00	BE379254.1	EST_HUMAN	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11612	24210	37534	2.29	0.0E+00	BE379254.1	EST_HUMAN	Human beta-prime-adaptin (BAM22) gene, exon 5
11632	24229	37553	2.22	0.0E+00	BE794758.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11634	24231	37554	45.09	0.0E+00	BE879833.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11640	24237	37560	1.82	0.0E+00	4758827	NT	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11640	24237	37561	1.82	0.0E+00	4758827	NT	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11644	24241	37566	1.85	0.0E+00	AF053543.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11646	24243	37572	1.56	0.0E+00	AL163204.2	NT	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11653	24250	37572	14.06	0.0E+00	BE408993.1	EST_HUMAN	601590588F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944708 5'
11654	24251	37573	1.48	0.0E+00	BE148650.1	EST_HUMAN	601491821F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3894220 5'
11655	24252	37574	2.69	0.0E+00	AF223391.1	NT	Homo sapiens neuritin III (NFRXN3) mRNA
11655	24252	37575	2.69	0.0E+00	AF223391.1	NT	Homo sapiens neuritin III (NFRXN3) mRNA
11657	18187	30878	1.29	0.0E+00	D28635.1	NT	Homo sapiens glutathione transferase zeta 1 (GSTZ1) gene, exons 6 and 7
11657	18187	30879	1.29	0.0E+00	D28635.1	NT	Homo sapiens chromosome 21 segment HS21C004
11658	24254	37576	5.8	0.0E+00	BF681641.1	EST_HUMAN	601289403F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3628544 5'
11658	24254	37576	5.8	0.0E+00	BF681641.1	EST_HUMAN	MR0-HT0241-150500-011-402 HT0241 Homo sapiens cDNA
11658	24254	37577	5.8	0.0E+00	BF681641.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11658	24254	37577	5.8	0.0E+00	BF681641.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11657	18187	30879	1.29	0.0E+00	D28635.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11657	18187	30879	1.29	0.0E+00	D28635.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11658	24254	37576	5.8	0.0E+00	BF681641.1	EST_HUMAN	602156722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4296725 5'
11658	24254	37577	5.8	0.0E+00	BF681641.1	EST_HUMAN	602156722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4296725 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11662	24238		1.93	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11664	17806	30593	1.5	0.0E+00	AF272683.1	NT	Homo sapiens gephyrin mRNA, complete cds
11667	24262	37898	1.71	0.0E+00	AU132940.1	EST_HUMAN	AU132940 NT2RP4 Homo sapiens cDNA clone NT2RP4000929 5'
11670	24265	37898	1.35	0.0E+00	BE903372.1	EST_HUMAN	601676357F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958935 5'
11687	24282	37604	2.5	0.0E+00	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
11687	24282	37605	2.5	0.0E+00	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
11728	25136		15.74	0.0E+00	BF309120.1	EST_HUMAN	601890534F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131416 5'
11737	24330	37654	11.96	0.0E+00	BE297175.1	EST_HUMAN	601177407F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3632968 5'
11751	24342	37671	1.3	0.0E+00	BE744311.1	EST_HUMAN	601576625F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
11751	24342	37672	1.3	0.0E+00	BE744311.1	EST_HUMAN	601576625F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
11757	24348	37678	1.43	0.0E+00	BE267612.1	EST_HUMAN	601113009F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'
11757	24348	37679	1.43	0.0E+00	BE267612.1	EST_HUMAN	601113009F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'
11785	24375	37705	1.69	0.0E+00	BE257698.1	EST_HUMAN	601114240F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354872 5'
11780	24380	37710	1.68	0.0E+00	AW749184.1	EST_HUMAN	PM1-BT0348-151288-001-c11 BT0348 Homo sapiens cDNA
11780	24380	37711	1.68	0.0E+00	AW749184.1	EST_HUMAN	PM1-BT0348-151288-001-c11 BT0348 Homo sapiens cDNA
11792	24382	37713	2.23	0.0E+00	AW367811.1	EST_HUMAN	MRO-HT0168-271189-005-g03 HT0168 Homo sapiens cDNA
11792	24382	37714	2.23	0.0E+00	AW367811.1	EST_HUMAN	MRO-HT0168-271189-005-g03 HT0168 Homo sapiens cDNA
11797	24387	37720	2.46	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002612 5'
11797	24387	37721	2.46	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002612 5'
11808	14946		1.31	0.0E+00	U38284.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11821	18891	31859	2.45	0.0E+00	U07223.1	NT	Human beta2-chimerin mRNA, complete cds
11822	24407	37741	5.54	0.0E+00	Z31706.1	NT	H. sapiens GLAST1 gene for glial glutamate transporter, exon8
11835	24419		2.26	0.0E+00	A658185.1	EST_HUMAN	tt39f02x1 NC1_CGAP_G08 Homo sapiens cDNA clone IMAGE:2243067 3' similar to SW:CG2G_HUMAN
11837	24421	37762	2.31	0.0E+00	AU132394.1	EST_HUMAN	P51959 G2MITOTIC-SPECIFIC CYCLIN G1.;
11878	25339	30600	2.27	0.0E+00	BE312542.1	EST_HUMAN	AU132394 NT2RP3 Homo sapiens cDNA clone NT2RP3004339 5'
11883	25257		3.89	0.0E+00	A1909893.1	EST_HUMAN	601160023F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503020 5'
11902	24468		1.6	0.0E+00	AB011398.1	NT	qel7b12x1 Soares_fetal_lung_NHL19W Homo sapiens cDNA clone IMAGE:1739231 3'
11921	24482		4.9	0.0E+00	AL163246.2	NT	Homo sapiens gene for AF-6, complete cds
11929	24489		4.1	0.0E+00	11417862	NT	Homo sapiens chromosome 21 segment HS21C046
11947	24501		3.05	0.0E+00	5802973	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
11982	25218	30816	2.59	0.0E+00	AF240788.1	NT	Homo sapiens antioxidant protein 1 (AOP1), nuclear gene encoding mitochondrial protein, mRNA
11983	25226		5.39	0.0E+00	AL041631.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
11983	25226		5.39	0.0E+00	AL041631.1	EST_HUMAN	DKFZp434K0819_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434K0819 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12015	25369		3.12	0.0E+00	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
12023	24551		3.91	0.0E+00	AL046544.1	EST_HUMAN	DKFZp434G218.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G218 5'
12037	25261		1.68	0.0E+00	AI903497.1	EST_HUMAN	IL-BT030-271088-001 BT030 Homo sapiens cDNA
12076	25390		1.52	0.0E+00	N54484.1	EST_HUMAN	y40608.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:245222 3' similar to SW-POL_BAEVM P10272 POL POLYPROTEIN;
12089	24594		5.88	0.0E+00	AF106658.1	NT	Homo sapiens adenylosuccinate lyase gene, complete cds
12092	13593	26262	3.39	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12092	13593	26263	3.39	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12100	25284		2.21	0.0E+00	10092587	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 (NFATC2), mRNA
12129	13318		2.04	0.0E+00	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
12218	25198	30814	2.63	0.0E+00	AW590082.1	EST_HUMAN	hg31e08.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2847234 3' similar to contains Alu repetitive element/contains element MER22 repetitive element;
12229	25248		1.34	0.0E+00	BE080210.1	EST_HUMAN	RC8-BT0711-290300-011-D05 BT0711 Homo sapiens cDNA
12273	25258		4.43	0.0E+00	AF068757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12308	24732		3.38	0.0E+00	9835487	NT	Human endogenous retrovirus, complete genome
12351	25252		2.41	0.0E+00	AI204914.1	EST_HUMAN	an05h04.x1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1694769 3'
12383	24778		1.68	0.0E+00	AI904646.1	EST_HUMAN	QV-BT065-020399-103 BT065 Homo sapiens cDNA
12405	14718	27438	1.51	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12405	14718	27437	1.51	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12423	24789	31039	2.08	0.0E+00	AF036365.1	NT	Homo sapiens caveolin-3 (CAV3) mRNA, complete cds
12495	14424	27119	2.78	0.0E+00	H30132.1	EST_HUMAN	y659e08.L1 Soares breast 3NHBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64089
12435	14424	27120	2.78	0.0E+00	H30132.1	EST_HUMAN	GAMMA-GLUTAMYLTRANSEPTIDASE 5 PRECURSOR (HUMAN);
12446	24816		10.68	0.0E+00	D50859.1	EST_HUMAN	y659e08.L1 Soares breast 3NHBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64089
12448	24818	31020	2.51	0.0E+00	11418189	NT	GAMMA-GLUTAMYLTRANSEPTIDASE 5 PRECURSOR (HUMAN);
12448	24818	31021	2.51	0.0E+00	11418189	NT	Human gamma-cytoplasmic actin (ACTGP9) pseudogene
12464	14817	27649	1.53	0.0E+00	4758489	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12502	24856		1.5	0.0E+00	AW664999.1	EST_HUMAN	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12538	13953	26617	2.09	0.0E+00	8922593	NT	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
12544	24894		1.88	0.0E+00	11526291	NT	h886a08.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2879154 3'
12588	16089	28718	4.24	0.0E+00	4895312	NT	Homo sapiens hypodermal protein FLJ10697 (FLJ10697), mRNA
							Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
							Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA

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Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12576	17805	30592	3.05	0.0E+00	6806818	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12582	24905		2.12	0.0E+00	AB028800.1	NT	Homo sapiens GST gene for cerebroside sulfotransferase, exon 1, 2, 3, 4, 5
12622	24927	31008	2.09	0.0E+00	9558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 180kD subunit (CPSF1), mRNA
12648	25410		2.66	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
12654	13390	26021	2.77	0.0E+00	6806818	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12729	24999	30972	1.5	0.0E+00	11417682	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12735	25004		4	0.0E+00	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
12780	25042	30967	1.76	0.0E+00	AW025032.1	EST_HUMAN	wu83c07.x1 NC1 CGAP_K143 Homo sapiens cDNA clone IMAGE2827586 3' similar to TR:Q12844 Q12844 BREAKPOINT CLUSTER REGION PROTEIN; contains TAR1.13 TAR1 repetitive element;
12808	13890	26550	1.37	0.0E+00	9868844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
12818	25251		1.39	0.0E+00	AF083824.1	NT	Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene, exon 8

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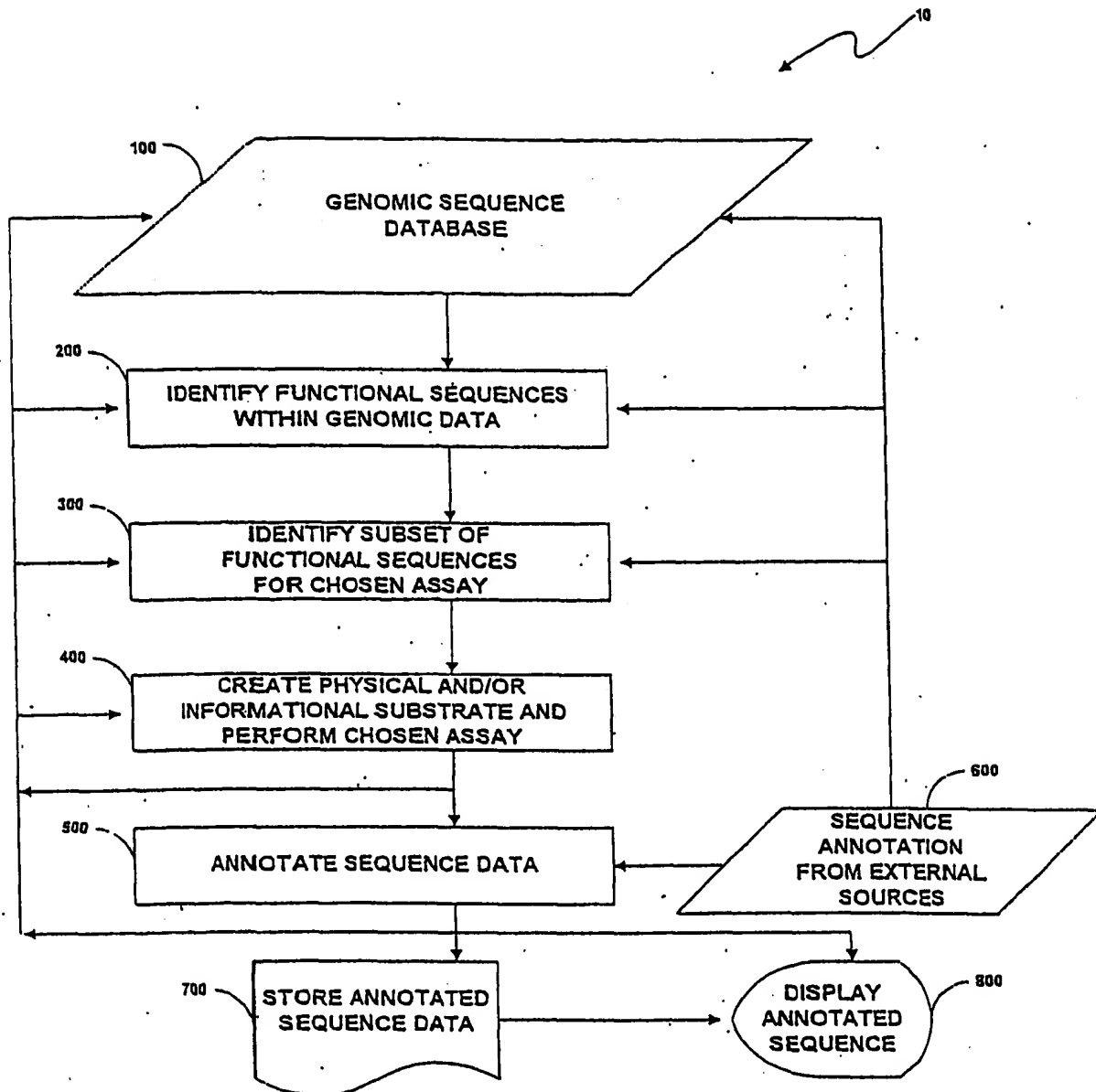


Fig. 1

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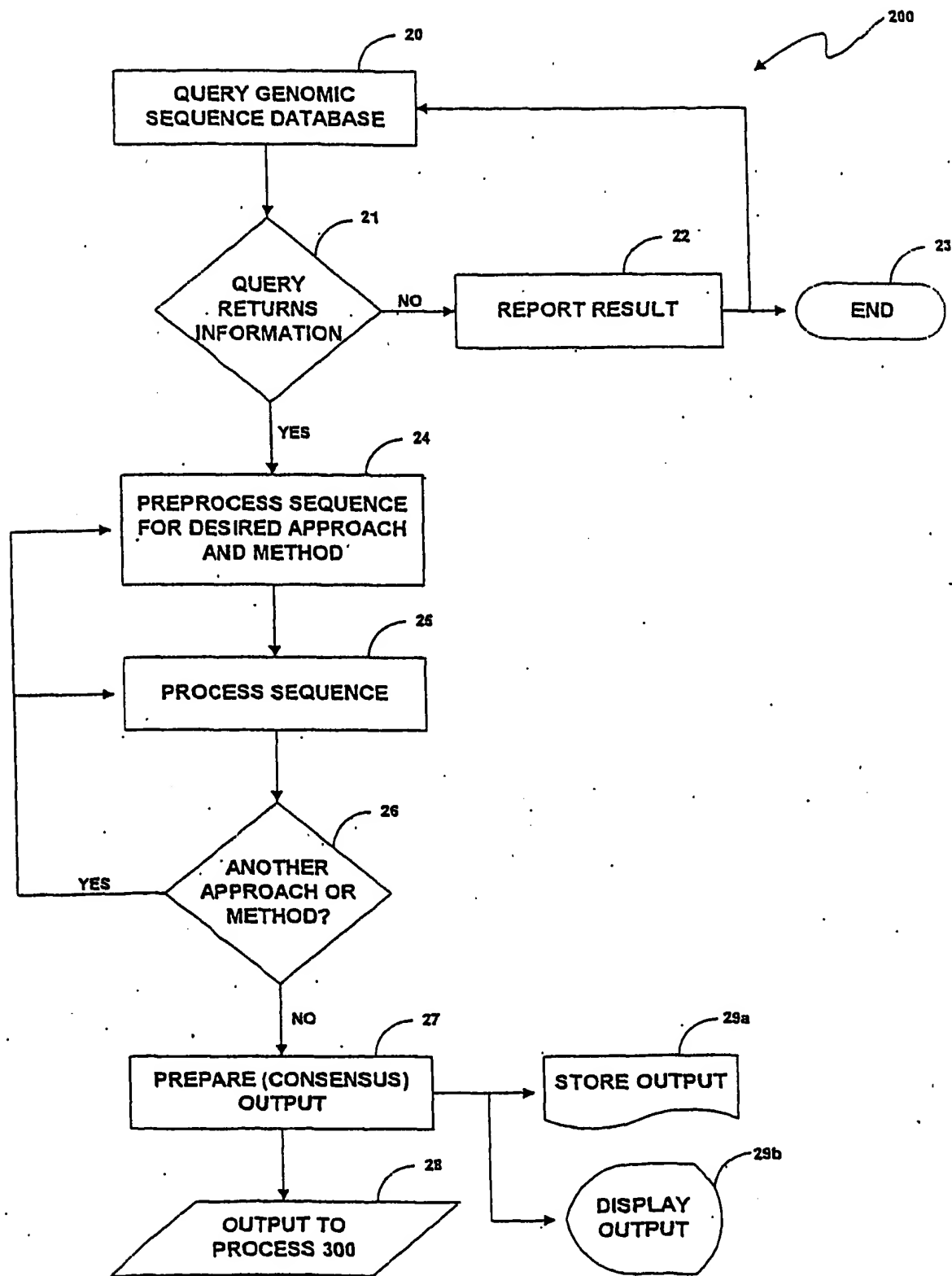


Fig. 2

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80

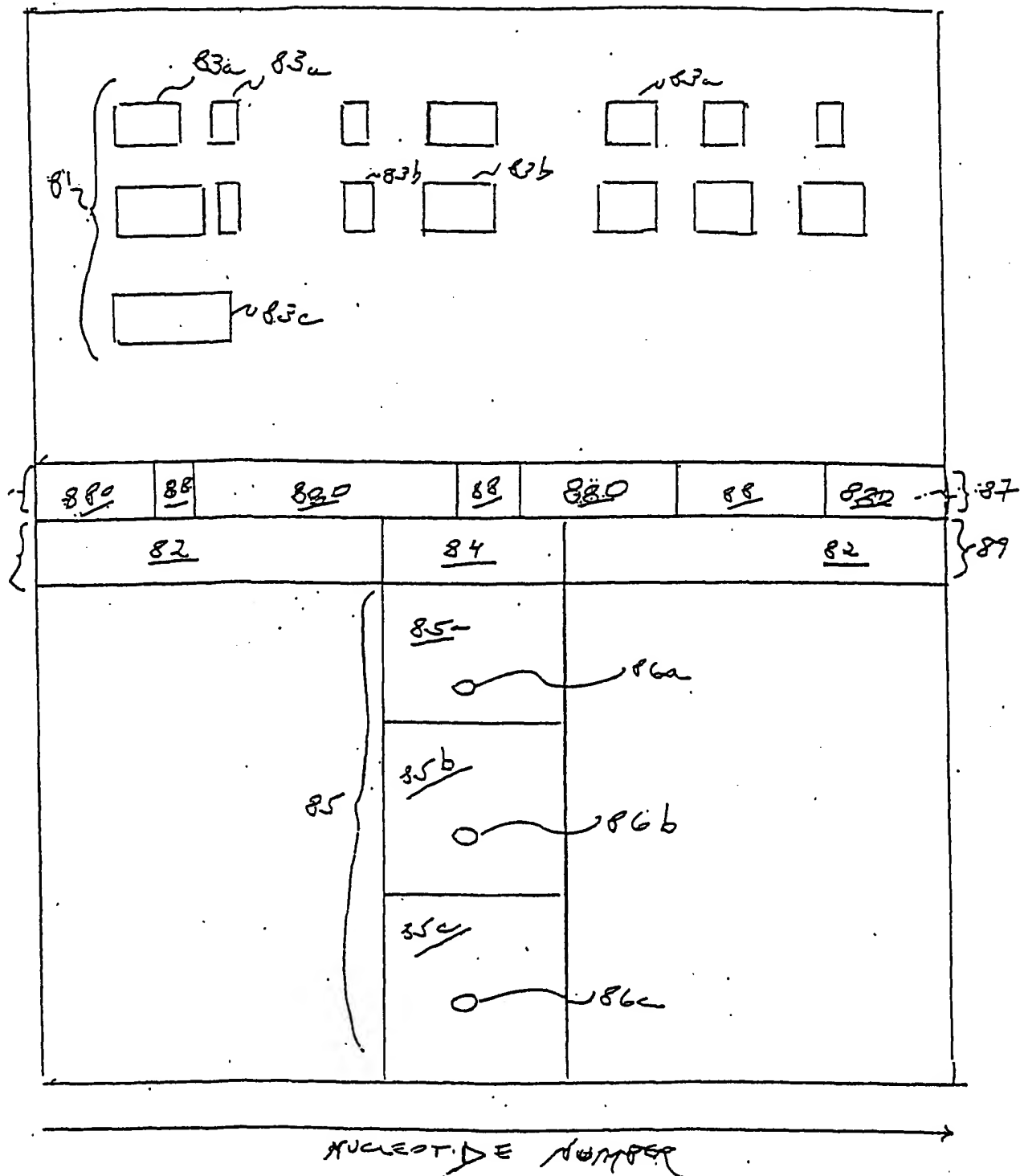


Fig. 3

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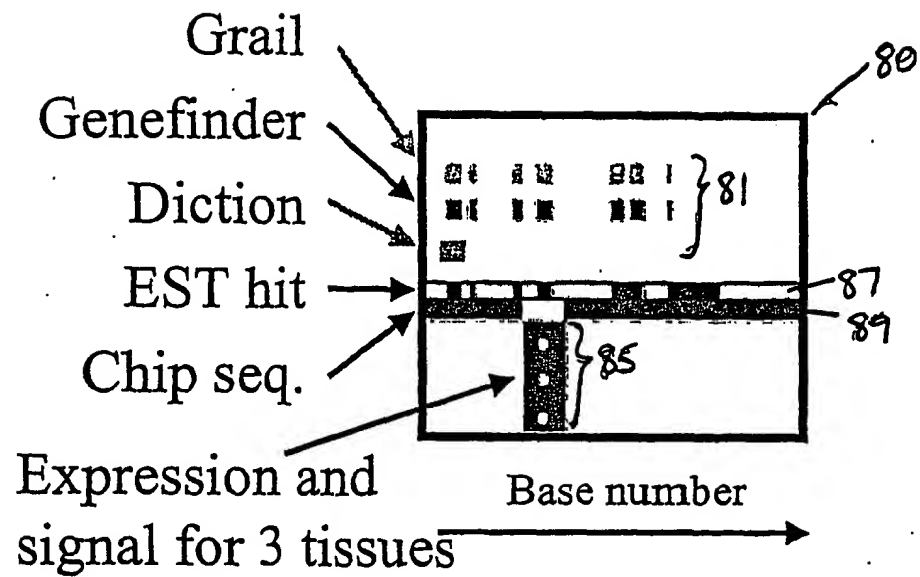


Fig. 4

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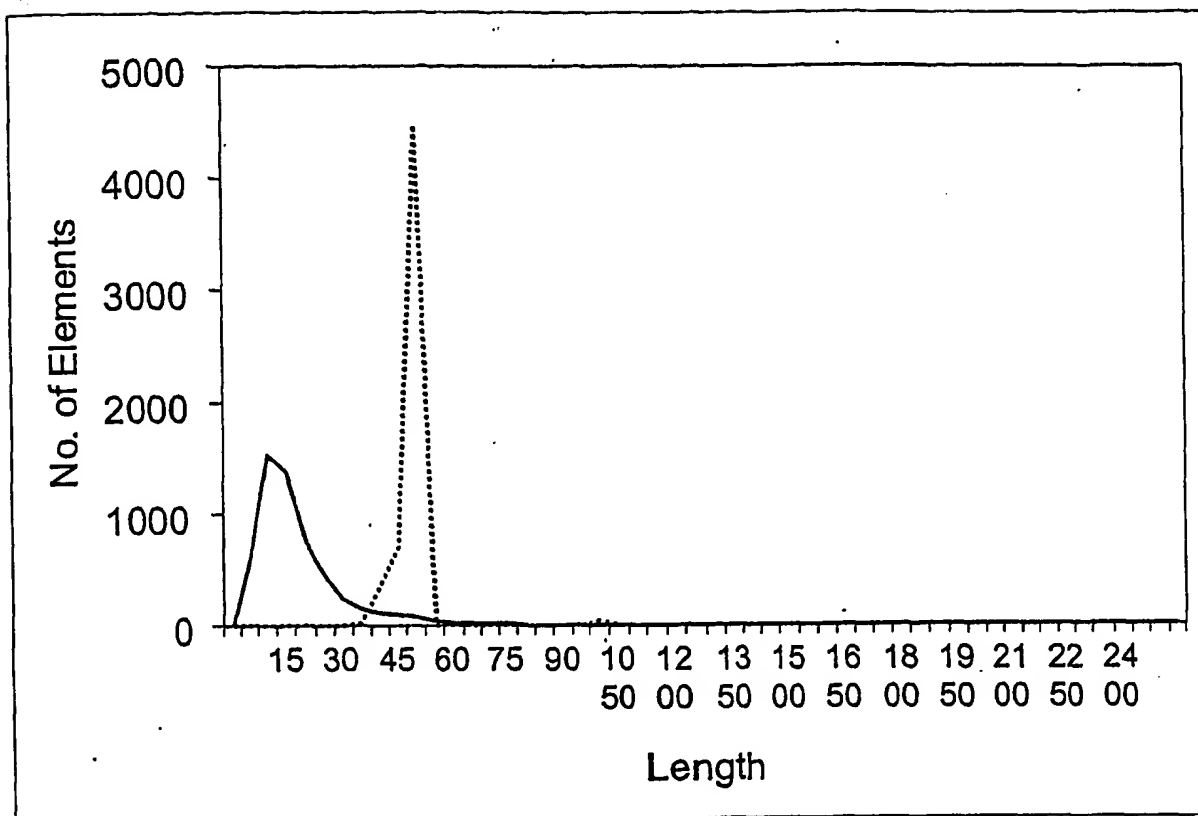


Fig. 5

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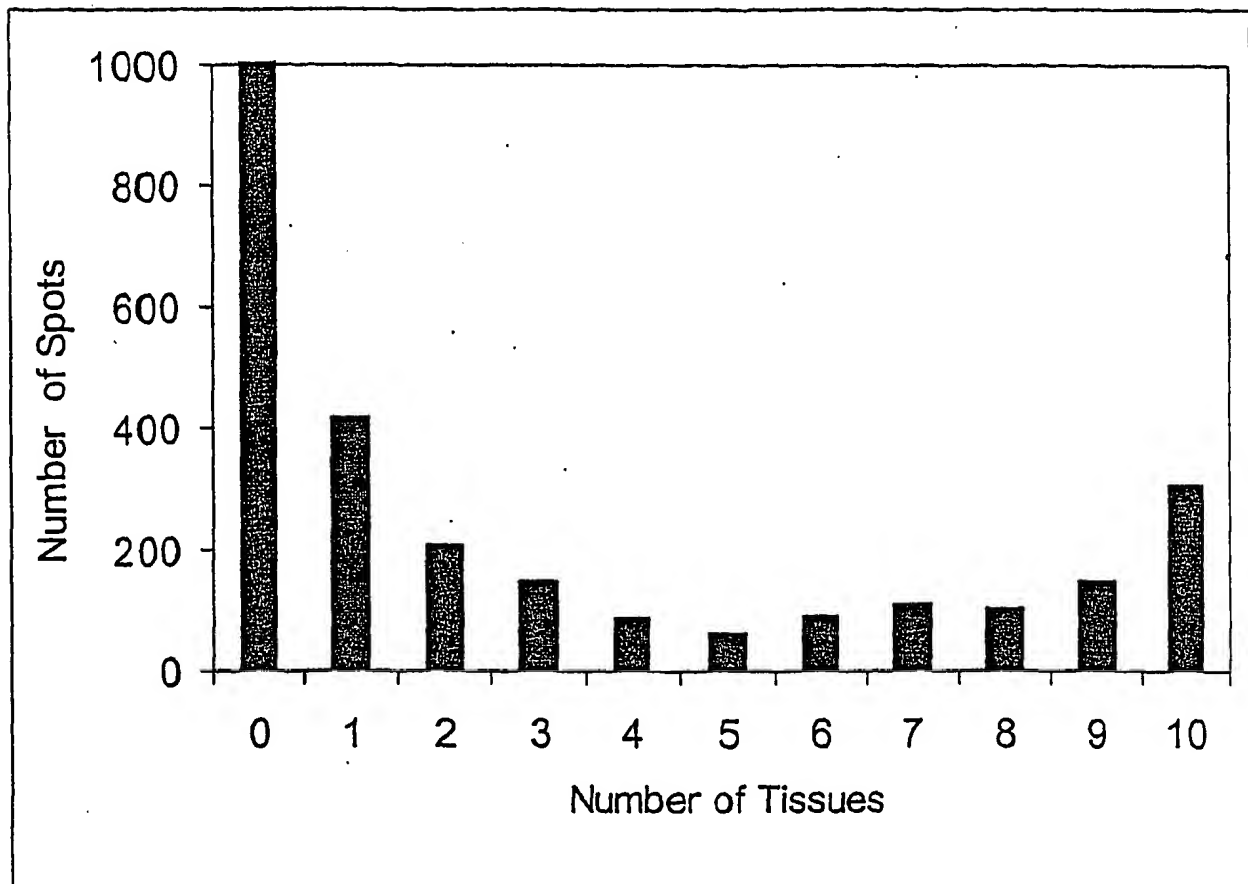


Fig. 6

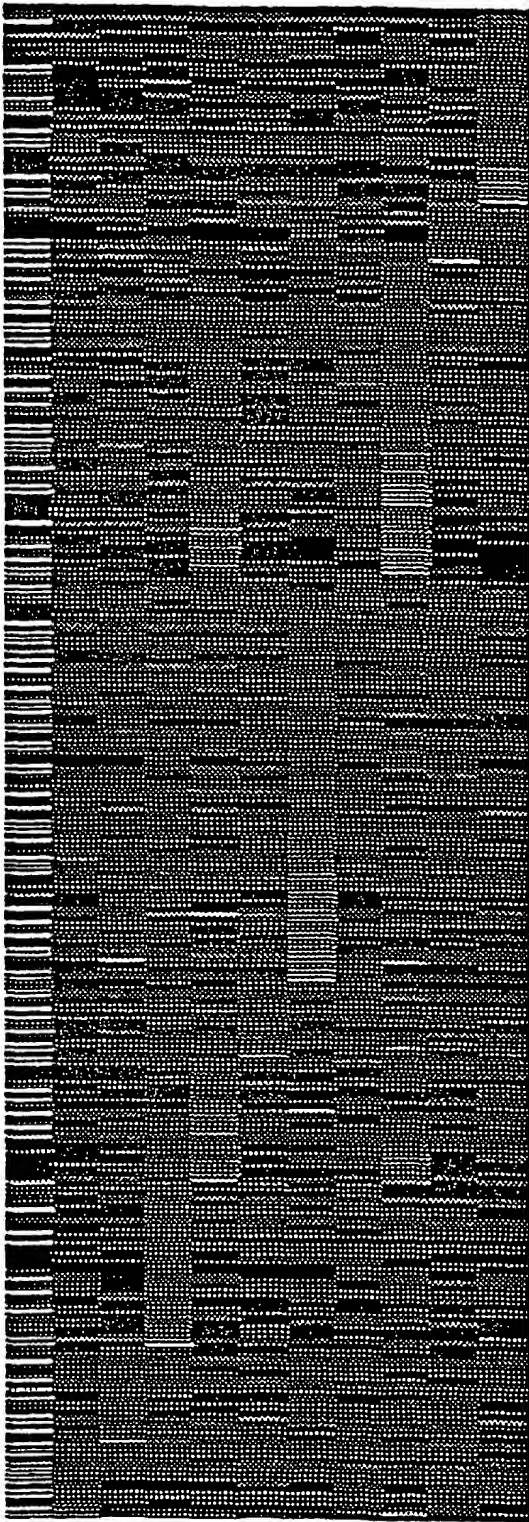


Fig. 7a

ratio legend

>9
8
7
6
5
4
3
2
1



Fig. 7b

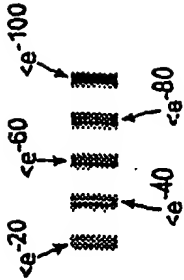


Fig. 7c

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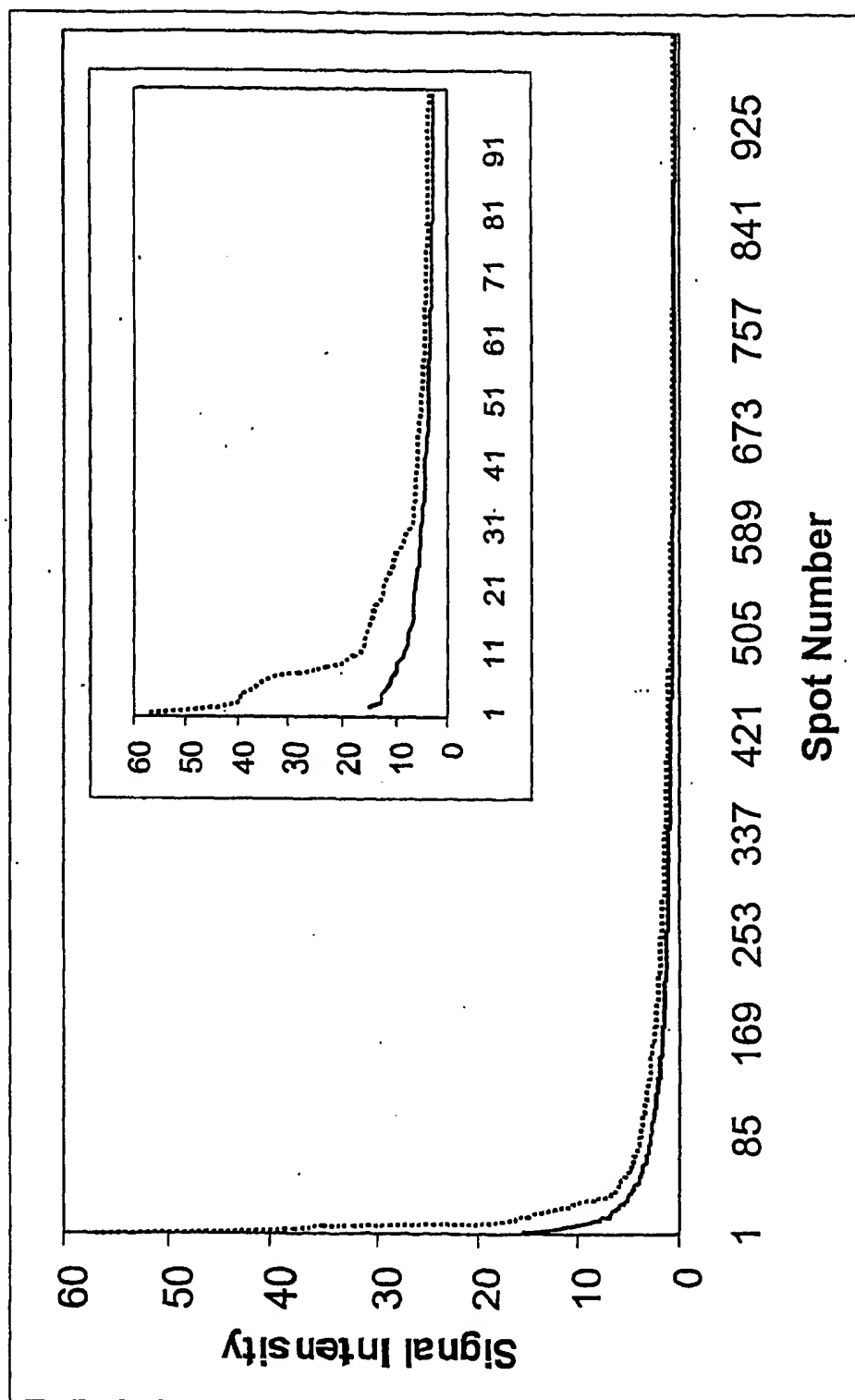


Fig. 8

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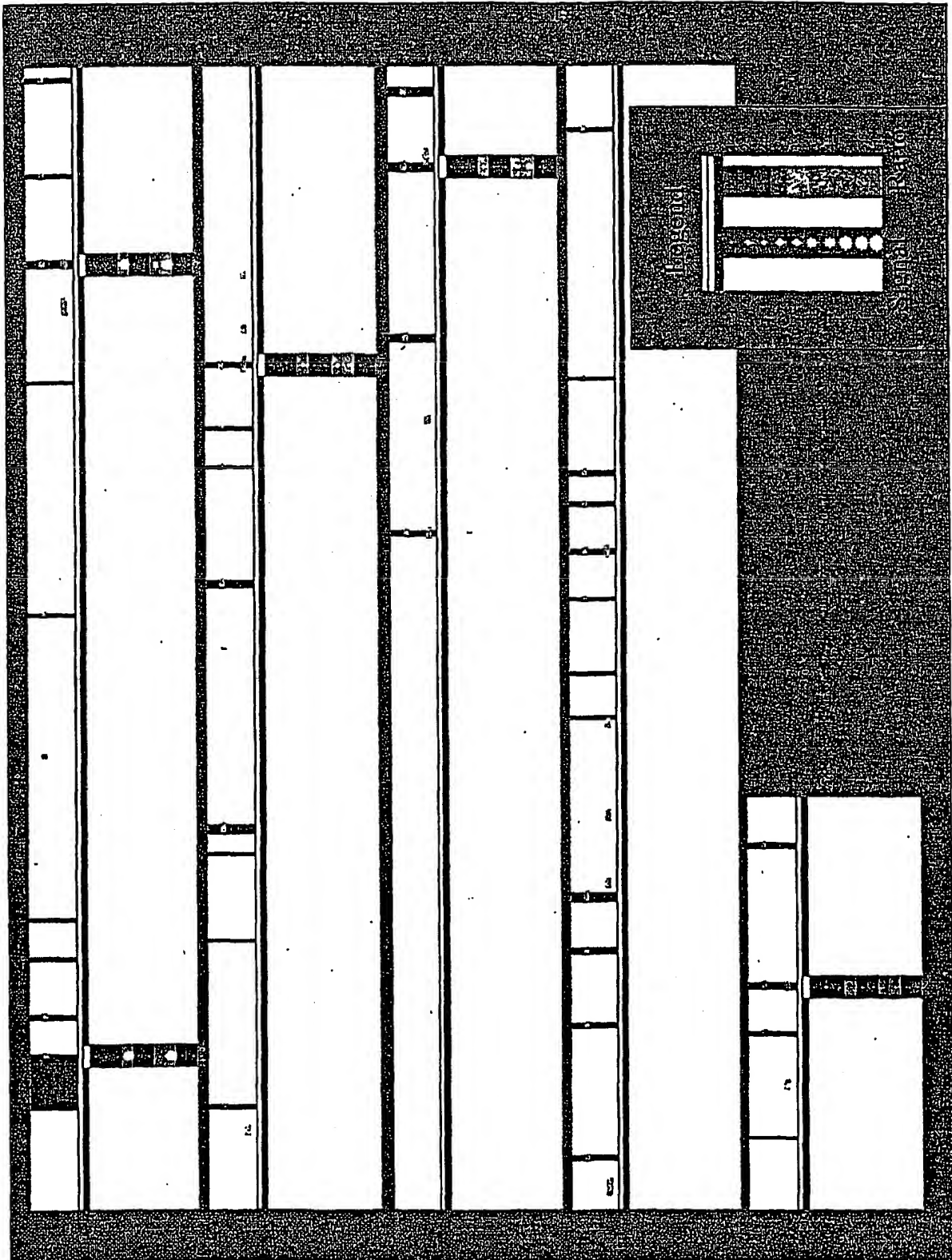


Fig. 9

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Fig. 10

